

Product datasheet

Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free ab251327

Recombinant RabMAb

13 Images

Overview

Product name	Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free
Description	Rabbit monoclonal [EPR19546] to CDK1 (phospho T161) + CDK2 (phospho T160) + CDK3 (phospho T160) - BSA and Azide free
Host species	Rabbit
Specificity	This antibody also recognizes CDK2 (phospho T160) and CDK3 (phospho T160).
Tested applications	Suitable for: Dot blot, WB, IHC-P, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab251327 is the carrier-free version of ab201008.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19546
Isotype	IgG

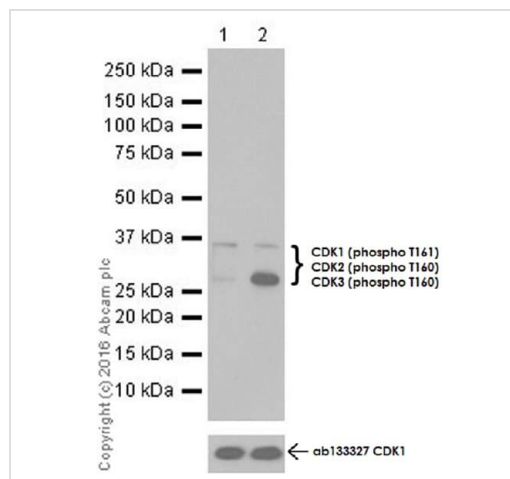
Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab251327 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Dot blot		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 34, 28 kDa (predicted molecular weight: 34 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Recommended for human and rat only.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

Cellular localization	CDK1: Nucleus.
Form	CDK1: CDK1 can be located to the Nucleus, cytoplasm and Mithochondria. It's cytoplasmic during interphase and reversibly translocated from cytoplasm to the nucleus when phosphorylated before G2-M transition when associated with cyclin-B1. Accumulates in mitochondria in G2-arrested cells upon DNA-damage.



Western blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

All lanes : Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] ([ab201008](#)) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa treated with UV for 90 minutes whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

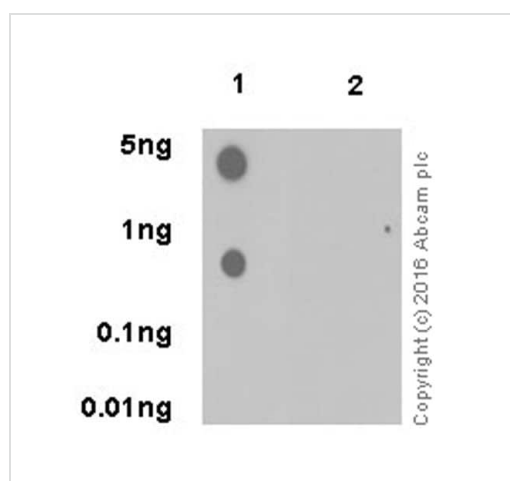
Predicted band size: 34 kDa

Observed band size: 28,34 kDa

Exposure time: 30 seconds

This data was developed using [ab201008](#), the same antibody clone in a different buffer formulation.

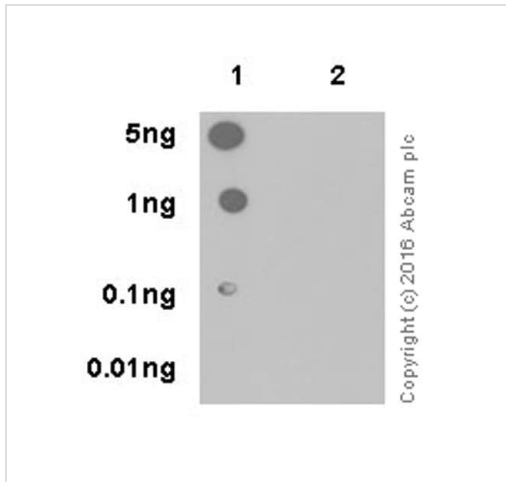
Blocking and dilution buffer: 5% NFDm/TBST.



Dot Blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

This data was developed using [ab201008](#), the same antibody clone in a different buffer formulation.

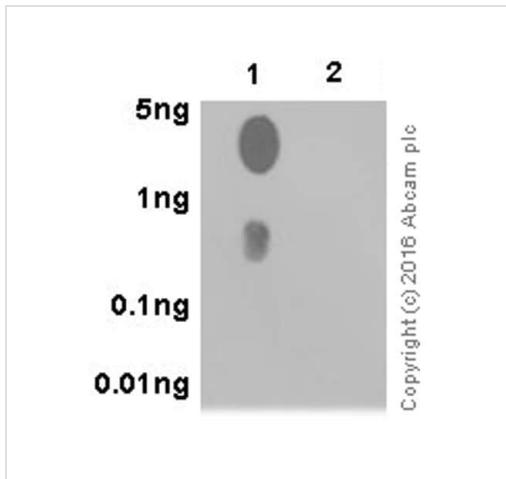
Dot blot analysis of CDK1 (phospho T161) labeled with [ab201008](#) at 1/1000 dilution. Lane 1: CDK1 (phospho T161) phospho peptide. Lane 2: CDK1 non-phospho peptide. Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody. Blocking and dilution buffer: 5% NFDm/TBST. Exposure time: 3 minutes.



Dot Blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

This data was developed using [ab201008](#), the same antibody clone in a different buffer formulation.

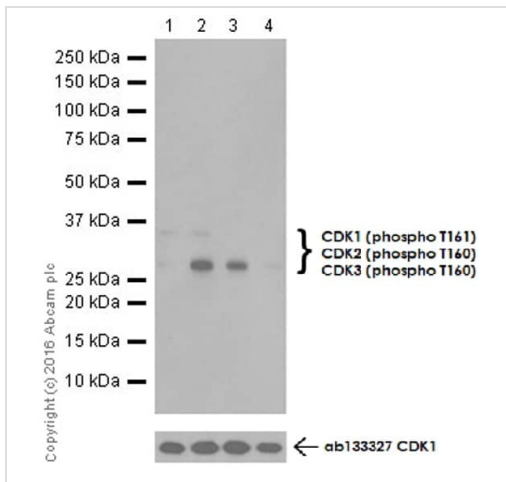
Dot blot analysis of CDK2 (phospho T160) labeled with [ab201008](#) at 1/1000 dilution. Lane 1: CDK2 (phospho T160) phospho peptide. Lane 2: CDK2 non-phospho peptide. Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody. Blocking and dilution buffer: 5% NFDm/TBST. Exposure time: 3 minutes.



Dot Blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

This data was developed using [ab201008](#), the same antibody clone in a different buffer formulation.

Dot blot analysis of CDK3 (phospho T160) labeled with [ab201008](#) at 1/1000 dilution. Lane 1: CDK3 (phospho T160) phospho peptide. Lane 2: CDK3 non-phospho peptide. Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody. Blocking and dilution buffer: 5% NFDm/TBST. Exposure time: 3 minutes.



Western blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

All lanes : Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] (**ab201008**) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa treated with UV for 90 minutes whole cell lysate

Lane 3 : HeLa treated with UV for 90 minutes then with alkaline phosphatase for 1-hour whole cell lysate

Lane 4 : HeLa treated with UV for 90 minutes then with alkaline phosphatase overnight whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

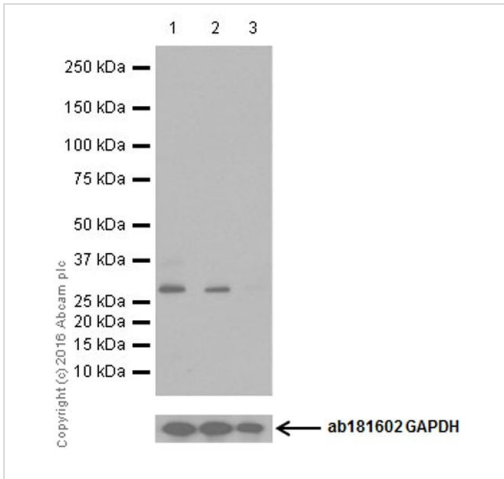
Predicted band size: 34 kDa

Observed band size: 28,34 kDa

Exposure time: 15 seconds

This data was developed using **ab201008**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

All lanes : Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] (**ab201008**) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor cell line) whole cell lysate

Lane 2 : C6 treated with alkaline phosphatase for 1 hour whole cell lysate

Lane 3 : C6 treated with alkaline phosphatase overnight whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

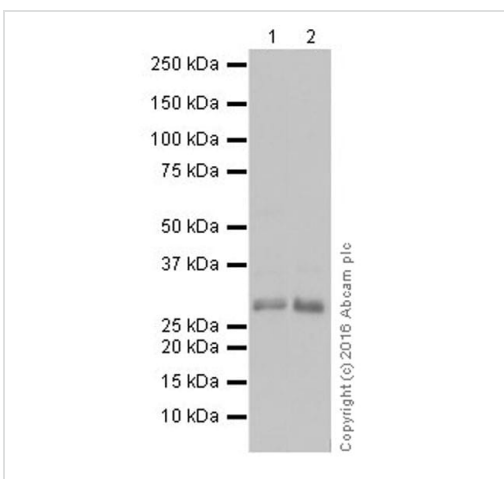
Predicted band size: 34 kDa

Observed band size: 28,34 kDa

Exposure time: 10 seconds

This data was developed using **ab201008**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)

All lanes : Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] (**ab201008**) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lane 2 : C6 (rat glial tumor cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

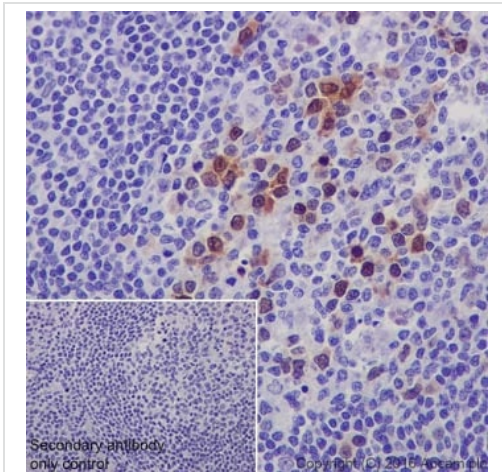
Predicted band size: 34 kDa

Observed band size: 28 kDa

Exposure time: 3 seconds

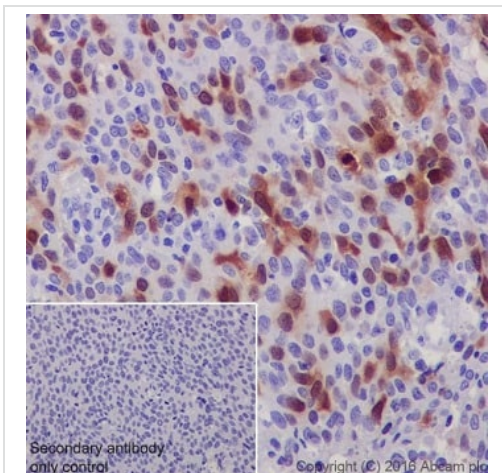
This data was developed using **ab201008**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



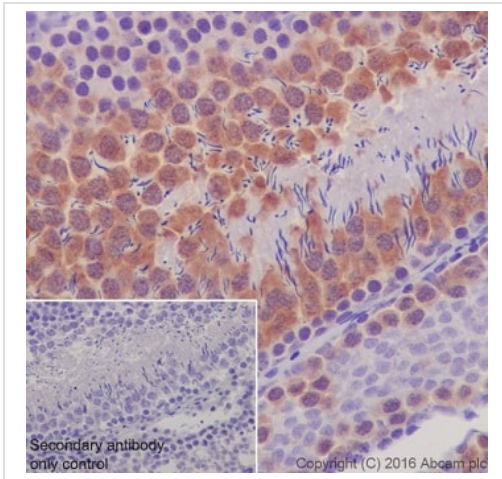
This data was developed using **ab201008**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CDK1 (phospho T161) with **ab201008** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus and weak cytoplasm staining of germinal center from human tonsil is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)



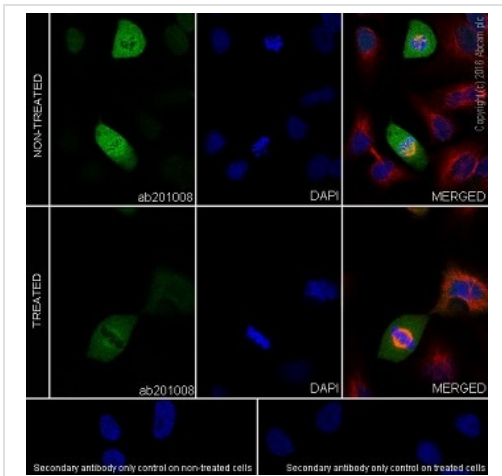
This data was developed using **ab201008**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded human cervix cancer tissue labeling CDK1 (phospho T161) with **ab201008** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus and cytoplasm staining of cancer cells from human cervix cancer is observed [PMID: 15623629]. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)



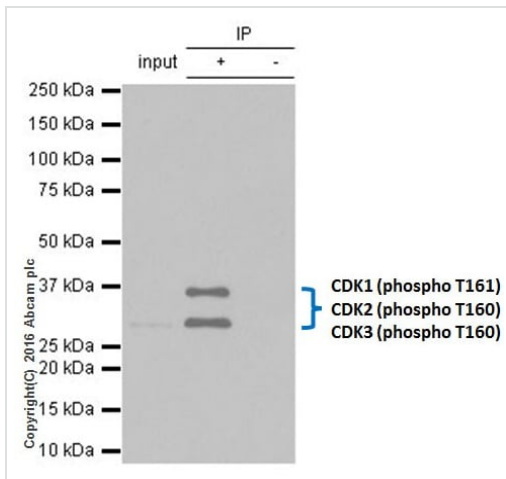
This data was developed using **ab201008**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded rat testis tissue labeling CDK1 (phospho T161) with **ab201008** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus and cytoplasm staining of rat testis is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)



This data was developed using **ab201008**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling CDK1 (phospho T161) with **ab201008** at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing specific signal in M phase cells. The signal decreased after treatment with lambda protein phosphatase 31°C for 5 hours. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-Alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-CDK1 (phospho T161) + CDK2 / CDK3 (phospho T160) antibody [EPR19546] - BSA and Azide free (ab251327)



Immunoprecipitation - Anti-CDK1 (phospho T161) +
 CDK2 / CDK3 (phospho T160) antibody [EPR19546]
 - BSA and Azide free (ab251327)

This data was developed using **ab201008**, the same antibody clone in a different buffer formulation.

CDK1 (phospho T161) was immunoprecipitated from 0.35mg of HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with **ab201008** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab201008** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HeLa treated with 25J/m² UV for 1 hour whole cell lysate 10 µg (Input).




Lane 2: **ab201008** IP in HeLa treated with 25J/m² UV for 1 hour whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab201008** in HeLa treated with 25J/m² UV for 1 hour whole cell lysate.

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-CDK1 (phospho T161) + CDK2 / CDK3
 (phospho T160) antibody [EPR19546] - BSA and
 Azide free (ab251327)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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