


## Product datasheet

# Anti-APPL antibody [EPR13569] - BSA and Azide free ab250150

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-APPL antibody [EPR13569] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR13569] to APPL - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa, MCF7 and HEK-293 cell lysates. IHC-P: Human pancreas and colon carcinoma tissue. ICC/IF: MCF7 cells.
<b>General notes</b>	<p>ab250150 is the carrier-free version of <a href="#">ab180140</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13569
<b>Isotype</b>	IgG

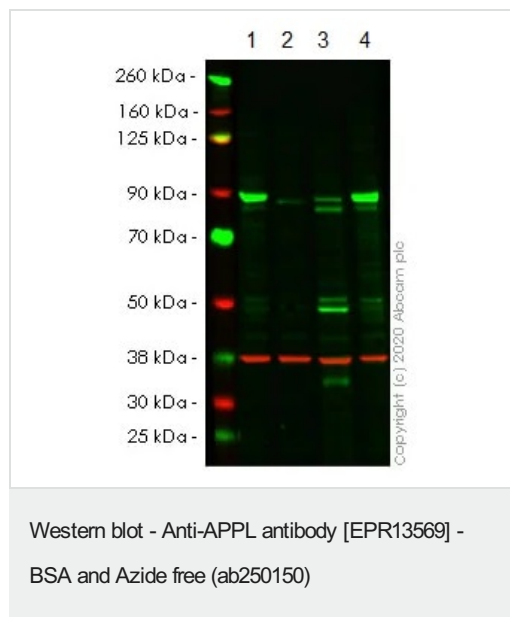
## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab250150 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
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.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 90 kDa (predicted molecular weight: 80 kDa).

## Target

<b>Function</b>	Required for the regulation of cell proliferation in response to extracellular signals from an early endosomal compartment. Links Rab5 to nuclear signal transduction.
<b>Tissue specificity</b>	High levels in heart, ovary, pancreas and skeletal muscle.
<b>Sequence similarities</b>	Contains 1 PH domain. Contains 1 PID domain.
<b>Domain</b>	Overexpression of an N-terminal domain (residues 1-319) or a C-terminal region (residues 273-709) has a proapoptotic effect.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Early endosome membrane. Nucleus. Early endosomal membrane-bound and nuclear. Translocated into the nucleus upon release from endosomal membranes following internalization of EGF.



**All lanes** : Anti-APPL antibody [EPR13569] (**ab180140**) at 1/1000 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : APPL CRISPR/Cas9 edited HeLa cell lysate

**Lane 3** : MCF7 cell lysate

**Lane 4** : HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

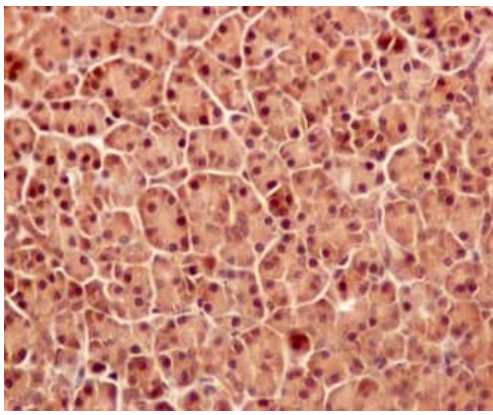
**Predicted band size:** 80 kDa

**Observed band size:** 90 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab180140**).

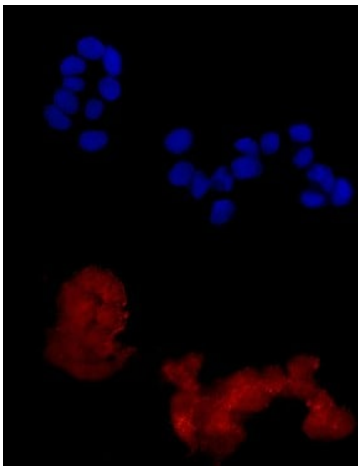
**Lanes 1-4:** Merged signal (red and green). Green - **ab180140** observed at 90 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

**ab180140** was shown to react with Anti-APPL in wild-type HeLa cells in western blot. The band observed in CRISPR/Cas9 edited cell line **ab265187** (CRISPR/Cas9 edited cell lysate **ab257836**) lane below 90kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HeLa and APPL1 CRISPR/Cas9 edited HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab180140** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



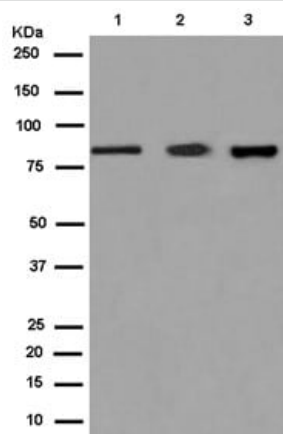
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APPL antibody [EPR13569] - BSA and Azide free (ab250150)

This data was developed using **ab180140**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human pancreas carcinoma tissue labeling APPL with **ab180140** at 1/100 dilution. Secondary antibody Goat anti rabbit IgG(HRP) prediluted. Counter stain Hematoxylin. Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-APPL antibody [EPR13569] - BSA and Azide free (ab250150)

This data was developed using **ab180140**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde fixed MCF7 cells labeling APPL with **ab180140** at 1/500 dilution. Secondary antibody Goat anti rabbit IgG(Dylight 555) Conterstained with Dapi blue.



Western blot - Anti-APPL antibody [EPR13569] - BSA and Azide free (ab250150)

**All lanes** : Anti-APPL antibody [EPR13569] ([ab180140](#)) at 1/10000 dilution

**Lane 1** : HeLa cell lysate

**Lane 2** : MCF7 cell lysate

**Lane 3** : 293 cell lysate

Lysates/proteins at 20 µg per lane.

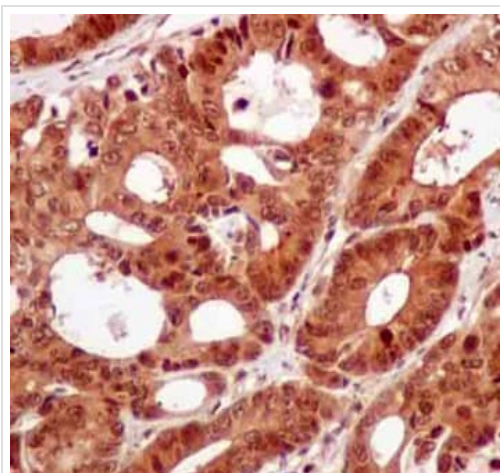
#### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 80 kDa

**Observed band size:** 90 kDa

This data was developed using [ab180140](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APPL antibody [EPR13569] - BSA and Azide free (ab250150)

This data was developed using [ab180140](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling APPL with [ab180140](#) at 1/100 dilution. Secondary antibody Goat anti rabbit IgG(HRP) prediluted. Counter stain Hematoxylin. Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

### 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-APPL antibody [EPR13569] - BSA and Azide free (ab250150)

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

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