

Product datasheet

Anti-Caspase-6/CASP-6 antibody [EPR18043] α b185645

Recombinant RabMAb

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Overview

Product name	Anti-Caspase-6/CASP-6 antibody [EPR18043]
Description	Rabbit monoclonal [EPR18043] to Caspase-6/CASP-6
Host species	Rabbit
Tested applications	Suitable for: 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.
Positive control	WB: Jurkat, NIH/3T3, C6 and PC-12 whole cell lysates. IHC-P: Human colon, mouse brain and rat brain tissues. ICC/IF: Jurkat cells. IP: NIH/3T3 whole cell lysate treated with 1uM staurosporine for 4 hours.
General notes	<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> <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.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18043

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185645 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
WB		1/1000. Detects a band of approximately 33, 11 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/50.
ICC/IF		1/500.

Target

Function

Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves poly(ADP-ribose) polymerase in vitro, as well as lamins. Overexpression promotes programmed cell death.

Sequence similarities

Belongs to the peptidase C14A family.

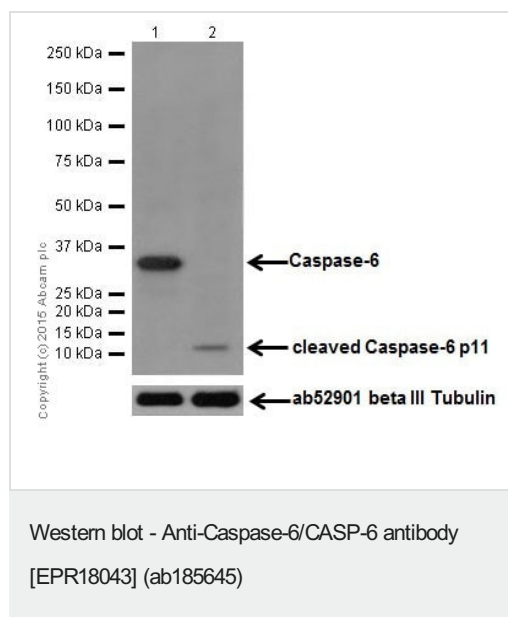
Post-translational modifications

Cleavages by caspase-3, caspase-8 or -10 generate the two active subunits.

Cellular localization

Cytoplasm.

Images



All lanes : Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645) at 1/1000 dilution

Lane 1 : Untreated Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate treated with 1uM staurosporine for 4 hours

Lysates/proteins at 10 µg per lane.

Secondary

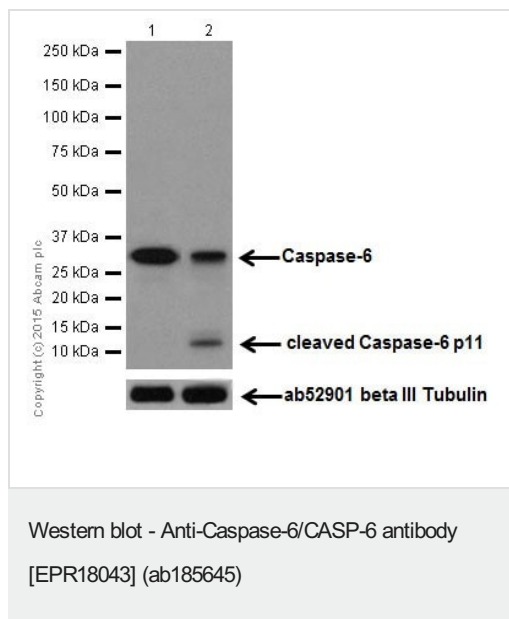
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 33 kDa

Observed band size: 11,33 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645) at 1/1000 dilution

Lane 1 : Untreated NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate treated with 1 uM staurosporine for 4 hours

Lysates/proteins at 10 µg per lane.

Secondary

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

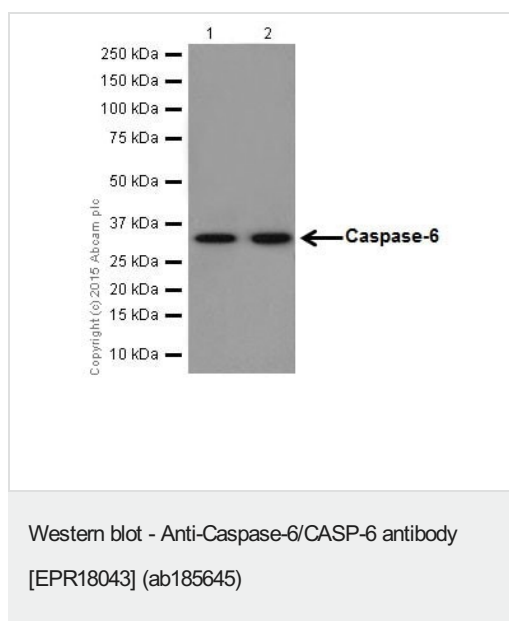
Predicted band size: 33 kDa

Observed band size: 11,33 kDa

Exposure time: 1 minute

The predicted MW is 32kDa for mouse and rat full-length procaspase-6.

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645) at 1/1000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

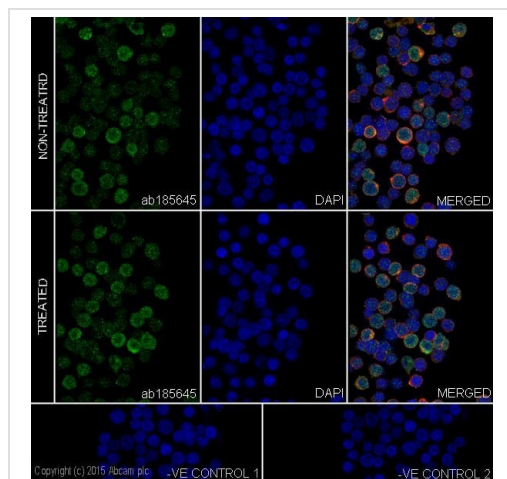
Predicted band size: 33 kDa

Observed band size: 33 kDa

Exposure time: 1 minute

The predicted MW is 32kDa for mouse and rat full-length procaspase-6.

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling Caspase-6/CASP-6 with ab185645 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 dilution (green).

Confocal image showing both nuclear and cytoplasmic staining on Jurkat cells. The staining remained similar after treatment with staurosporine (1uM, 4 hours) as the antibody interacts with the subunit p11.

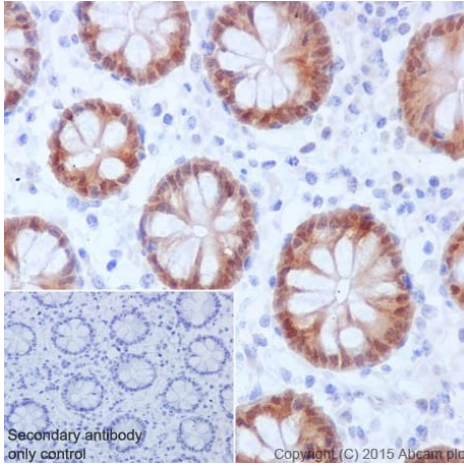
The nuclear counter stain is DAPI (blue).

Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:

-ve control 1: ab185645 at 1/500 dilution followed by [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2: [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution followed by [ab150077](#) (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645)

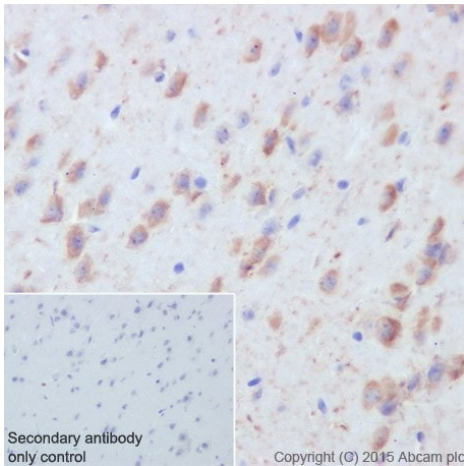
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Caspase-6/CASP-6 with ab185645 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Cytoplasmic and nuclear staining on epithelial cells of human colon 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645)

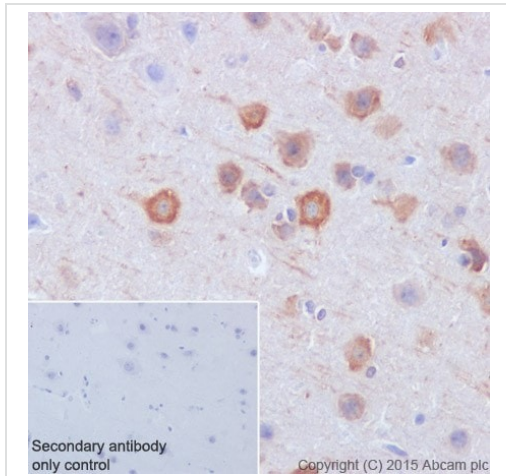
Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labeling Caspase-6/CASP-6 with ab185645 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Cytoplasmic staining on neurons of mouse brain 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645)

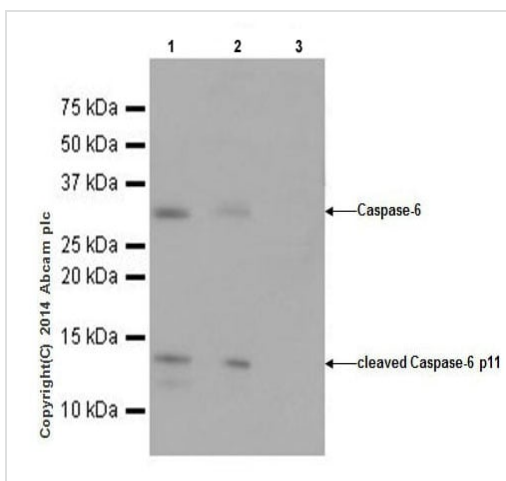
Immunohistochemical analysis of paraffin-embedded Rat brain tissue labeling Caspase-6/CASP-6 with ab185645 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Cytoplasmic staining on neurons of rat brain 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Caspase-6/CASP-6 antibody [EPR18043] (ab185645)

Caspase-6/CASP-6 was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryo fibroblast cells) treated with 1uM staurosporine for 4 hours whole cell lysate with ab185645 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab185645 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1/1500 dilution.

Lane 1: NIH/3T3 treated with 1uM staurosporine for 4 hours whole cell lysate 10 µg (Input). Lane 2: ab185645 IP in NIH/3T3 treated with 1uM staurosporine for 4 hours whole cell lysate. Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab185645 in NIH/3T3 treated with 1uM staurosporine for 4 hours whole cell lysate.

The cleaved Caspase-6/CASP-6 appears slightly larger than 11kDa. This fragment contains subunit p11 plus the internal propeptide.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

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-Caspase-6/CASP-6 antibody [EPR18043]
(ab185645)

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

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