abcam

Product datasheet

HRP Anti-Caspase-7 antibody [E22] ab206039

KO VALIDATED RabMAb

2 Images

Overview

Product name	HRP Anti-Caspase-7 antibody [E22]
Description	HRP Rabbit monoclonal [E22] to Caspase-7
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human Caspase-7 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: **P55210**
Positive control	WB: Jurkat whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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.

	Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E22
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab206039 in the following tested applications.

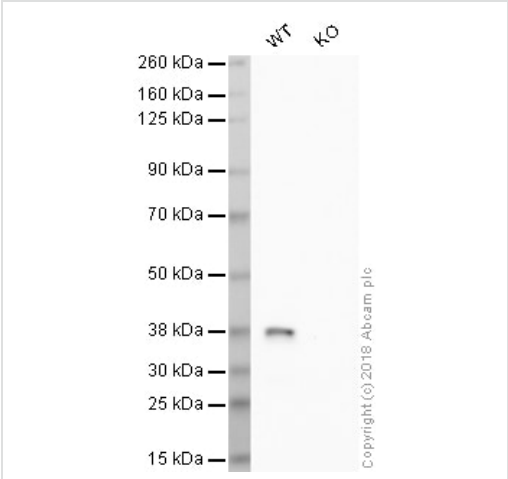
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 36 kDa (predicted molecular weight: 34 kDa).

Target

Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp- -Gly-217' bond. Overexpression promotes programmed cell death.
Tissue specificity	Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.
Sequence similarities	Belongs to the peptidase C14A family.
Post-translational modifications	Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.
Cellular localization	Cytoplasm.

Images



Western blot - HRP Anti-Caspase-7 antibody [E22] (ab206039)

All lanes : HRP Anti-Caspase-7 antibody [E22] (ab206039) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : CASP7 knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

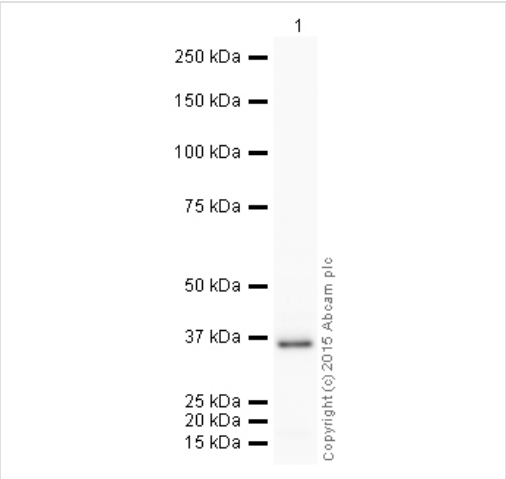
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 38 kDa

Exposure time: 20 minutes

ab206039 was shown to specifically react with Caspase-7 in wild-type HAP1 cells as signal was lost in CASP7 knockout cells. Wild-type and CASP7 knockout samples were subjected to SDS-PAGE. Ab206039 was incubated overnight at 4°C at 1/5000 dilution. Blots were developed with ECL technique.



Western blot - HRP Anti-Caspase-7 antibody [E22] (ab206039)

HRP Anti-Caspase-7 antibody [E22] (ab206039) at 1/5000 dilution + Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 36 kDa

Exposure time: 2 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab206039 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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