abcam

ab249980

Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR10890
Purification technique	Affinity purification Protein A
Concentration	0.967 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information CASP10

Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates effector caspases CASP3, CASP4, CASP6, CASP7, CASP8 and CASP9. Hydrolyzes the small-molecule substrates, Tyr-Val-Ala-Asp-|-AMC and Asp-Glu-Val-Asp-|-AMC. Isoform 7 can enhance NF-kappaB activity but promotes only slight apoptosis. Isoform C is proteolytically inactive.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab249980 is the carrier-free version of ab177475.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology

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

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility
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.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

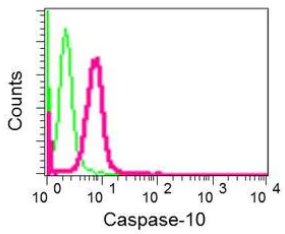
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

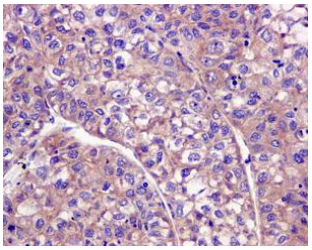
5 product images



Flow Cytometry (Intracellular) - Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free (ab249980)

Caspase-10/CASP-10 Flow Cytometry (Intracellular) staining using rabbit Anti-Caspase-10/CASP-10 antibody

This data was developed using ab177475, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized K562 cells labeling Caspase 10/CASP-10 with ab177475 at 1/100 dilution (red) compared to a rabbit IgG negative control (green).

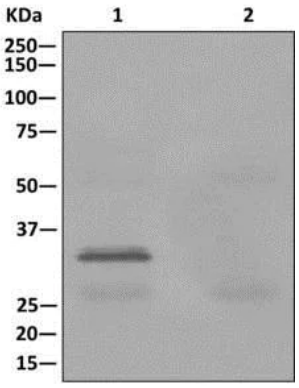


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free (ab249980)

Caspase-10/CASP-10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Caspase-10/CASP-10 antibody

This data was developed using ab177475, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling Caspase-10/CASP-10 with ab177475 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

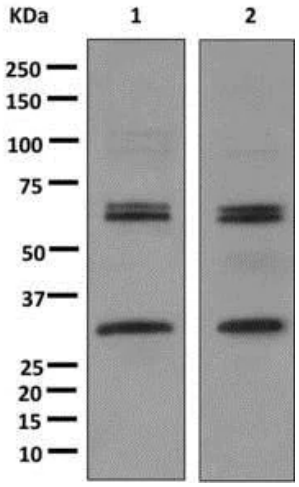


Immunoprecipitation - Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free (ab249980)

This data was developed using ab177475, the same antibody clone in a different buffer formulation.
Western blot analysis on immunoprecipitation pellet from (1) K562 cell lysate or (2) 1XPBS (negative control) using ab177475 and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

All lanes:
Immunoprecipitation - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475)

Predicted band size: 58 kDa



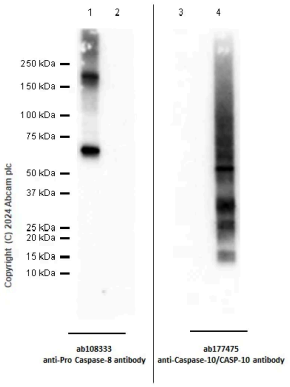
Western blot - Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free (ab249980)

This data was developed using ab177475, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475) at 1/1000 dilution

Lane 1:
K562 cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Predicted band size: 58 kDa



Western blot - Anti-Caspase-10/CASP-10 antibody [EPR10890] - BSA and Azide free (ab249980)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab177475).

Blocking and diluting buffer: 5% NFDM /TBST.

Exposure time:

Lane 1 & 2: 7 seconds

Lane 3 & 4: 3 seconds

Lanes 1 - 2:
Western blot - Anti-Pro Caspase-8 antibody [EPR162] (ab108333) at 1/1000 dilution

Lanes 3 - 4:
Western blot - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475) at 1/1000 dilution

Lanes 1 - 2:
His-tagged Human full-length Caspase 8 recombinant protein at 10 ng

Lanes 3 - 4:
His-tagged Human full-length Caspase 10 recombinant protein at 10 ng

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 60-70 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.