abcam

ab177475

Anti-Caspase-10/CASP-10 antibody [EPR10890]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR10890
Purification technique	Affinity purification Protein A
Concentration	0.721 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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.

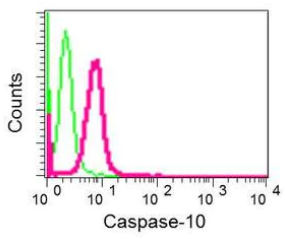
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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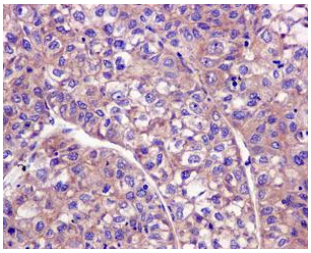
5 product images



Flow Cytometry (Intracellular) - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475)

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

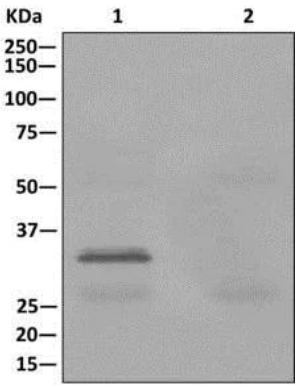
Intracellular flow cytometric analysis of permeabilized K562 cells labeling Caspase 10/CASP-10 with ab177475 at 1/100 dilution (red) compared toa rabbit IgG negative control (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475)

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

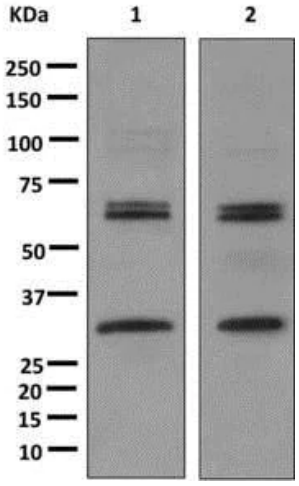
Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling Caspase-10/CASP-10 with ab177475 at 1/50 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



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

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



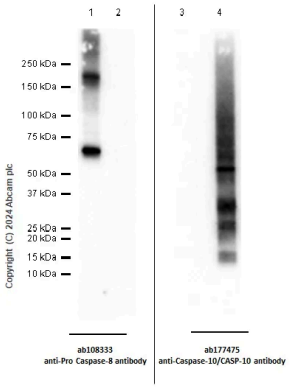
Western blot - Anti-Caspase-10/CASP-10 antibody [EPR10890] (ab177475)

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] (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'.