


Product datasheet

Anti-Smac/Diablo antibody [Y12] ab32023

Recombinant RabMAb

★★★★★ 5 Abreviews 22 References 6 Images

Overview

Product name	Anti-Smac/Diablo antibody [Y12]
Description	Rabbit monoclonal [Y12] to Smac/Diablo
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human Smac/ Diablo (C terminal). The exact sequence is proprietary.
Epitope	ab32023 reacts with an epitope located in the C terminal region of Smac / Diablo.
Positive control	WB: Jurkat whole cell lysate (ab7899). IHC-P: Human skin cancer tissue. ICC/IF: HeLa cells. IP: Jurkat.
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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	Y12
Isotype	IgG

Applications

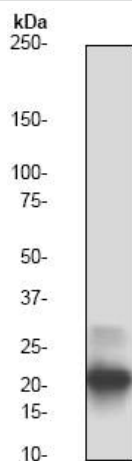
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32023 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (3)	1/1000. Detects a band of approximately 21 kDa (predicted molecular weight: 27 kDa).
IHC-P		1/10. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP	★★★★★ (1)	1/10 - 1/80.
ICC/IF		1/500.

Target

Function	Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP).
Tissue specificity	Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes.
Domain	The mature N-terminus mediates interaction with XIAP.
Cellular localization	Mitochondrion. Released into the cytosol when cells undergo apoptosis.

Images

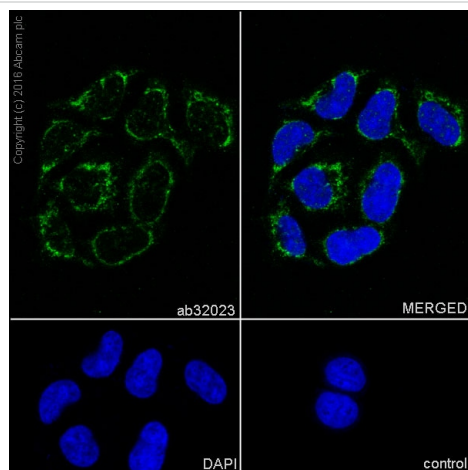


Western blot - Anti-Smac/Diablo antibody [Y12] (ab32023)

Anti-Smac/Diablo antibody [Y12] (ab32023) at 1/1000 dilution + Jurkat cell lysate

Predicted band size: 27 kDa

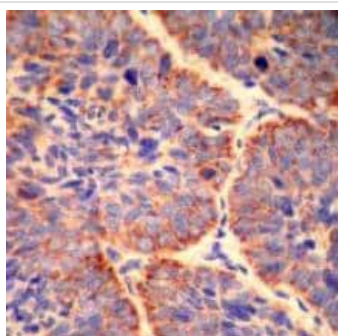
Observed band size: 21 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Smac/Diablo antibody [Y12] (ab32023)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Smac / Diablo with ab32023 at 1/500. Cells were fixed with 100% methanol. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Control: PBS only.

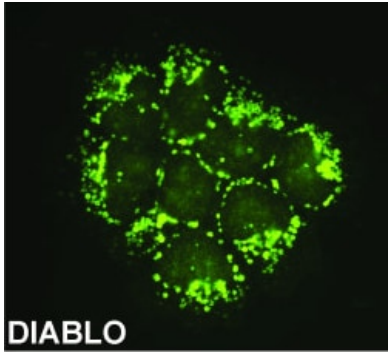
Nuclear counter stain: DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Smac/Diablo antibody [Y12] (ab32023)

ab32023, at a 1/10 dilution, staining human Smac/Diablo in skin cancer tissue by immunohistochemistry, paraffin-embedded tissue.

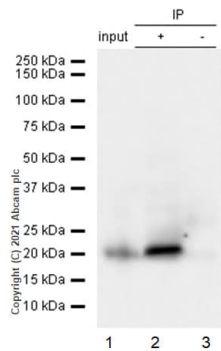
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Smac/Diablo antibody [Y12] (ab32023)

Image from Lamers F et al., BMC Cancer. 2012 Jul 12;12:285. doi: 10.1186/1471-2407-12-285. Fig 3.; 12 July 2012, BMC Cancer 2012, 12:285

Immunofluorescence analysis of IMR32 cells, staining Smac / Diablo with ab32023. Cells were fixed with 4% paraformaldehyde before incubating with primary antibody. An Alexa Fluor[®] conjugated anti-rabbit IgG was used as the secondary antibody.



Immunoprecipitation - Anti-Smac/Diablo antibody [Y12] (ab32023)

Smac/Diablo was immunoprecipitated from 0.35 mg Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10 µg with ab32023 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

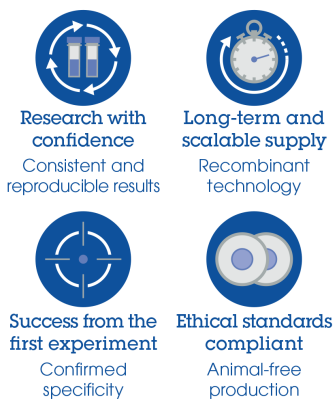
Lane 1: Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10 µg

Lane 2: ab32023 IP in Jurkat whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab32023 in Jurkat whole cell lysate

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

Why choose a recombinant antibody?



Anti-Smac/Diablo antibody [Y12] (ab32023)

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