

Product datasheet

Anti-Smac / Diablo antibody [Y12] ab32023

Recombinant RabMAb

★★★★☆ 5 Abreviews 13 References 4 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, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
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.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

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, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	Y12
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab32023** in the following tested applications.

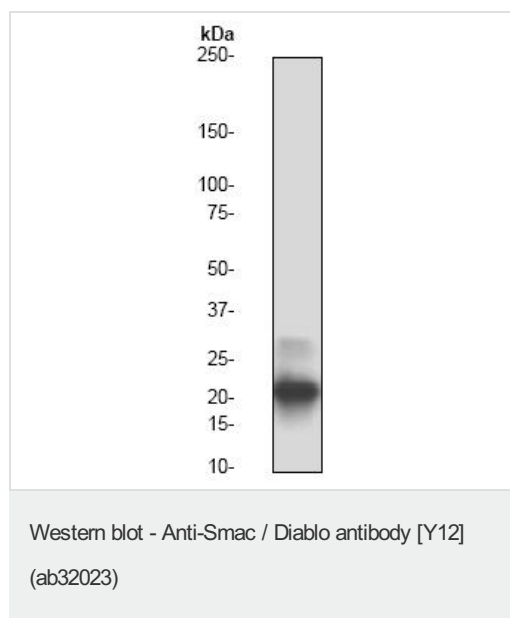
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/1000. Detects a band of approximately 21 kDa (predicted molecular weight: 27 kDa).
IHC-P		Use at an assay dependent concentration.
IP	★★★★★	1/10 - 1/80.
Flow Cyt	★★★★☆	1/10 - 1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
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

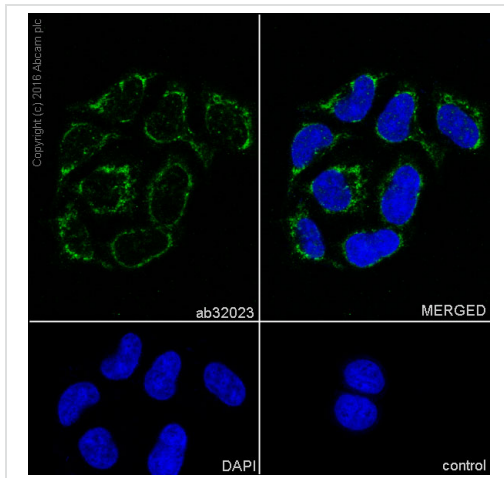


Anti-Smac / Diablo antibody [Y12] (ab32023) at 1/1000 dilution + Jurkat cell lysate

Predicted band size: 27 kDa

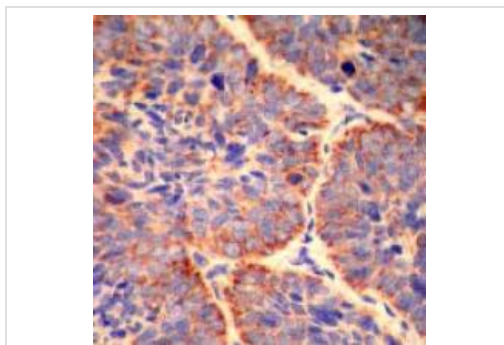
Observed band size: 21 kDa

[why is the actual band size different from the predicted?](#)



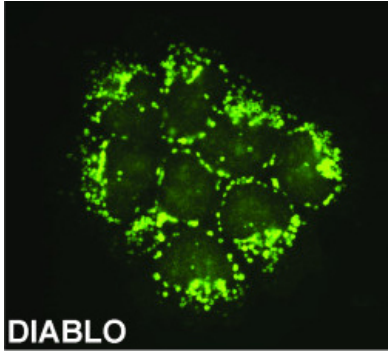
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Smac / Diablo with ab32023 at 1/500. Cells were fixed with 100% methanol. ab150077, an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Control: PBS only.
Nuclear counter stain: DAPI.

Immunocytochemistry/ Immunofluorescence - 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

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



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.

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

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