

Product datasheet

Anti-Smac/Diablo antibody [Y12] - BSA and Azide free ab239797

Recombinant RabMAb

4 Images

Overview

Product name	Anti-Smac/Diablo antibody [Y12] - BSA and Azide free
Description	Rabbit Monoclonal [Y12] to Smac/Diablo - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Smac/ Diablo (C terminal). The exact sequence is proprietary.
Epitope	ab239797 reacts with an epitope located in the C terminal region of Smac / Diablo.
General notes	Ab239797 is the carrier-free version of ab32023 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab239797 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated

antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	Y12
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab239797** in the following tested applications.

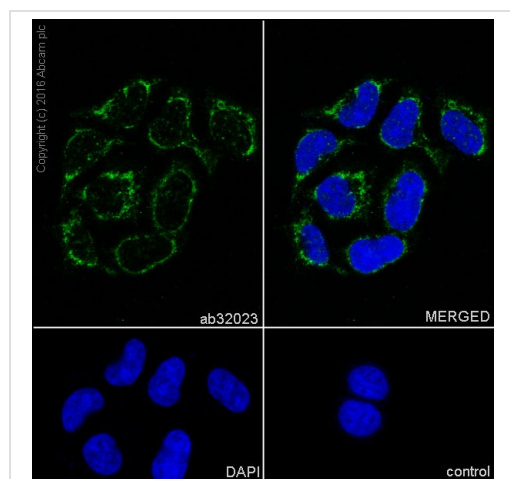
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 21 kDa (predicted molecular weight: 27 kDa).

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

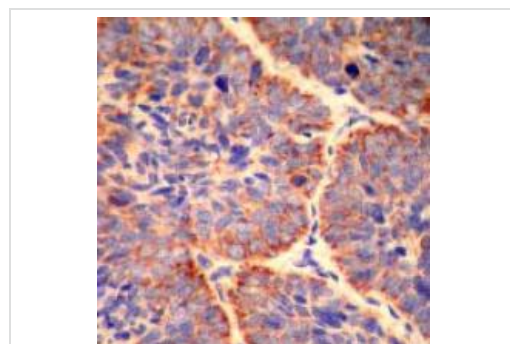


Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Smac / Diablo with [ab32023](#) at 1/500. Cells were fixed with 100% methanol. [ab150077](#), an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Control: PBS only.

Nuclear counter stain: DAPI.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab32023](#)).

Immunocytochemistry/ Immunofluorescence - Anti-Smac / Diablo antibody [Y12] - BSA and Azide free ([ab239797](#))

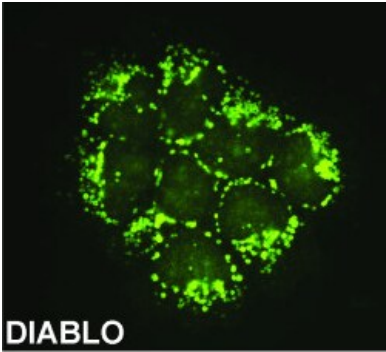


[ab32023](#), at a 1/10 dilution, staining human Smac/Diablo in skin cancer tissue by Immunohistochemistry, Paraffin embedded tissue

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab32023](#)).

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Smac / Diablo antibody [Y12] - BSA and Azide free ([ab239797](#))






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. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab32023](#)).

Immunocytochemistry/ Immunofluorescence - Anti-Smac / Diablo antibody [Y12] - BSA and Azide free (ab239797)

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.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Smac / Diablo antibody [Y12] - BSA and Azide free (ab239797)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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