abcam

Product datasheet

Anti-XIAP antibody [2F1] ab28151

8 Abreviews 27 References 3 Images

Overview

Product name	Anti-XIAP antibody [2F1]
Description	Mouse monoclonal [2F1] to XIAP
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, WB, IP, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Fusion protein with Human XIAP.
Epitope	ab28151 reacts with an epitope located in the C terminal region encoded by aa 352/449 of XIAP.
Positive control	HeLa Cell Lysate
General notes	**Abcam is committed to meeting high quality standards of ethical manufacturing and has decided to discontinue this product by June 2020 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We suggest ab227196 or ab137392 or ab21278 as possible replacements**.

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 long term.
Storage buffer	pH: 7.20 Constituents: PBS, 50% Glycerol
Purity	Ascites
Purification notes	Purified from ascites.
Clonality	Monoclonal
Clone number	2F1
Isotype	IgG1

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab28151 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
Flow Cyt		Use 2µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (5)	Use a concentration of 1 µg/ml. Predicted molecular weight: 55 kDa.
IP		Use at an assay dependent concentration.
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration. PubMed: 22039248

Target

Function Apoptotic suppressor. Has E3 ubiquitin-protein ligase activity. Mediates the proteasomal degradation of target proteins, such as caspase-3, SMAC or AIFM1. Inhibitor of caspase-3, -7 and -9. Mediates activation of MAP3K7/TAK1, leading to the activation of NF-kappa-B.

Tissue specificity Ubiquitous, except peripheral blood leukocytes.

Involvement in disease Defects in XIAP are the cause of lymphoproliferative syndrome X-linked type 2 (XLP2) [MIM:300635]. XLP is a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus (EBV). Symptoms include severe or fatal mononucleosis, acquired hypogammaglobulinemia, pancytopenia and malignant lymphoma.

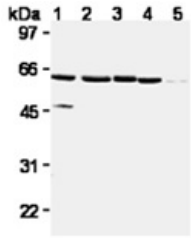
Sequence similarities Belongs to the IAP family.
Contains 3 BIR repeats.
Contains 1 RING-type zinc finger.

Domain The first BIR domain is involved in interaction with TAB1/MAP3K7IP1 and is important for dimerization. The second BIR domain is sufficient to inhibit caspase-3 and caspase-7, while the third BIR is involved in caspase-9 inhibition. The interactions with SMAC and PRSS25 are mediated by the second and third BIR domains.

Post-translational modifications Ubiquitinated and degraded by the proteasome in apoptotic cells.
Phosphorylation by PKB/AKT protects XIAP against ubiquitination and protects the protein against proteasomal degradation.

Cellular localization Cytoplasm.

Images

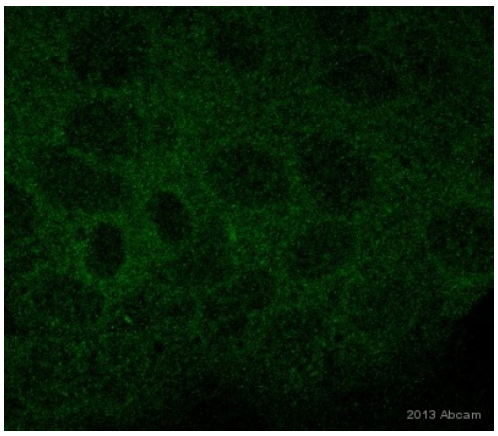


Western blot - Anti-XIAP antibody [2F1] (ab28151)

All lanes : Anti-XIAP antibody [2F1] (ab28151) at 1 µg/ml

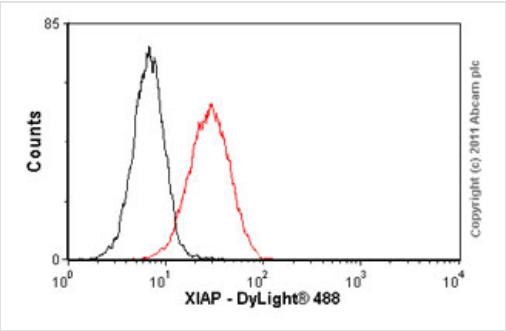
Lane 1 : Jukat (human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 2 : Raji (human Burkitt's lymphoma cell line) whole cell lysate
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 4 : WR19L (WR19 tumour induced by Abelson murine leukemia virus) whole cell lysate
Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

Predicted band size: 55 kDa



Immunocytochemistry/ Immunofluorescence - Anti-XIAP antibody [2F1] (ab28151)
This image is courtesy of an anonymous Abreview

ab28151 staining XIAP in Mouse colonic epithelial cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.01% Triton X-100 and blocked with 1% BSA for 45 minutes at 20°C. Samples were incubated with primary antibody (1/50 in 1% BSA + 0.01% Triton X-100) for 2 hours at 22°C. An Alexa Fluor® 488-conjugated Chicken anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.



Flow Cytometry - Anti-XIAP antibody [2F1] (ab28151)

Overlay histogram showing HeLA cells stained with ab28151 (red line). The cells were fixed with 100% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab28151, 2µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors