

## Product datasheet

# Anti-XIAP antibody [EPR22189-113] ab229050

**KO VALIDATED** Recombinant RabMAB

[7 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-XIAP antibody [EPR22189-113]
<b>Description</b>	Rabbit monoclonal [EPR22189-113] to XIAP
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK-293T, HeLa, WI-38, HepG2, A549, C6, RAW 264.7, PC-12, NIH/3T3 and Neuro-2a whole cell lysates.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22189-113
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab229050 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 50-56 kDa (predicted molecular weight: 56 kDa).

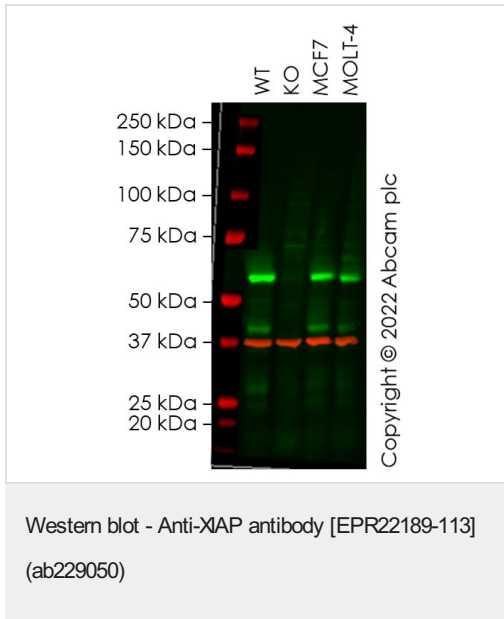
## Target

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<b>Function</b>	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.
<b>Tissue specificity</b>	Ubiquitous, except peripheral blood leukocytes.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the IAP family. Contains 3 BIR repeats. Contains 1 RING-type zinc finger.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	Ubiquitinated and degraded by the proteasome in apoptotic cells. Phosphorylation by PKB/AKT protects XIAP against ubiquitination and protects the protein against proteasomal degradation.
<b>Cellular localization</b>	Cytoplasm.

## Images

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**All lanes :** Anti-XIAP antibody [EPR22189-113] (ab229050) at 1/1000 dilution

**Lane 1 :** Wild-type A549 cell lysate

**Lane 2 :** XIAP knockout A549 cell lysate

**Lane 3 :** MCF7 cell lysate

**Lane 4 :** MOLT-4 cell lysate

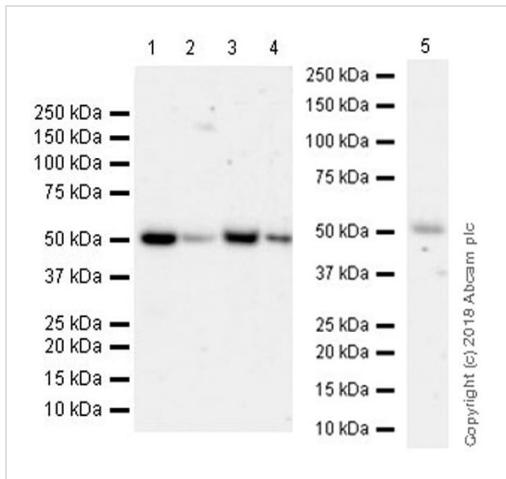
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 56 kDa

**Observed band size:** 60 kDa

False colour image of Western blot: Anti-XIAP antibody [EPR22189-113] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab229050 was shown to bind specifically to XIAP. A band was observed at 60 kDa in wild-type A549 cell lysates with no signal observed at this size in XIAP knockout cell line [ab289043](#). To generate this image, wild-type and XIAP knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-XIAP antibody [EPR22189-113] (ab229050)

**All lanes :** Anti-XIAP antibody [EPR22189-113] (ab229050) at 1/1000 dilution

**Lane 1 :** C6 (rat glial tumor cell line) whole cell lysate

**Lane 2 :** RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 3 :** PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 4 :** NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

**Lane 5 :** Neuro-2a (mouse neuroblastoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

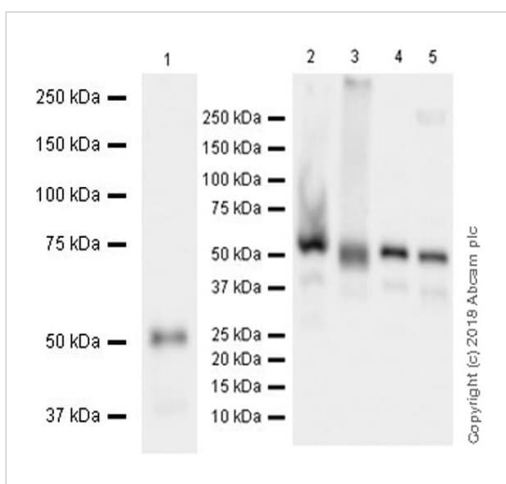
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 56 kDa

**Observed band size:** 50-56 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-XIAP antibody [EPR22189-113] (ab229050)

**All lanes :** Anti-XIAP antibody [EPR22189-113] (ab229050) at 1/1000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

**Lane 2 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 3 :** WI-38 (human fetal lung fibroblast cell line) whole cell lysate

**Lane 4 :** HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

**Lane 5 :** A549 (human lung carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at  
1/100000 dilution

**Predicted band size:** 56 kDa

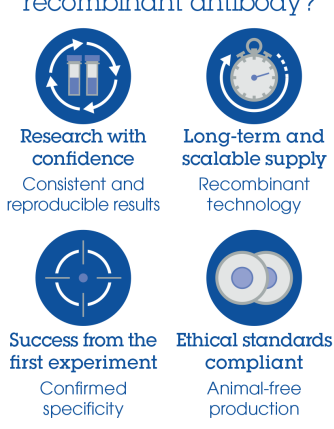
**Observed band size:** 50-56 kDa

**Exposure time:** 37 seconds

Blocking/Dilution buffer: 5% NFD/MTBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 25535897).

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-XIAP antibody [EPR22189-113] (ab229050)

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

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