


Anti-XIAP antibody ab137392

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Overview

Product name	Anti-XIAP antibody
Description	Rabbit polyclonal to XIAP
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rabbit, Pig 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 282-470 of Human XIAP (Uniprot ID: P98170).
Positive control	A549 and NIH 3T3 whole cell lysates; HeLa cells; Human SW480 xenograft tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137392 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		1/500 - 1/3000. Predicted molecular weight: 57 kDa.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. or Tris-EDTA buffer (pH8.0)

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.

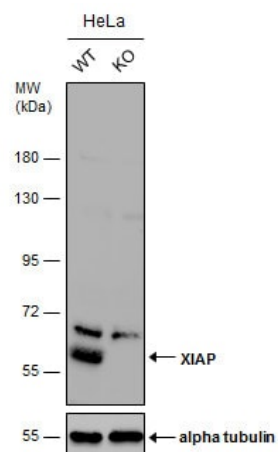
Post-translational modifications

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 (ab137392)

All lanes : Anti-XIAP antibody (ab137392) at 1/500 dilution

Lane 1 : WT HeLa cell extract

Lane 2 : XIAP Knockout 293T cell extracts

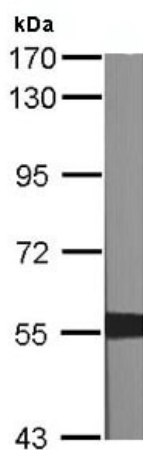
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG

Predicted band size: 57 kDa

Observed band size: 73 kDa

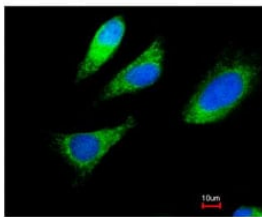
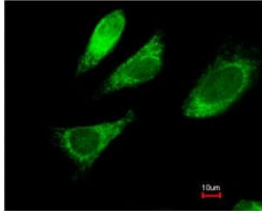


Western blot - Anti-XIAP antibody (ab137392)

Anti-XIAP antibody (ab137392) at 1/1000 dilution + NIH 3T3 whole cell lysate
at 30 µg

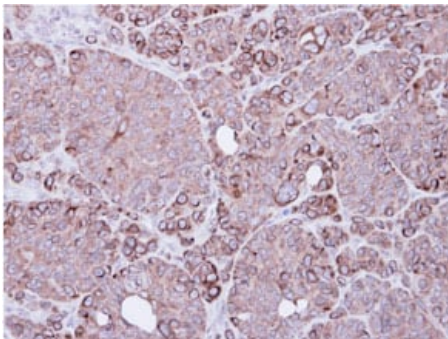
Predicted band size: 57 kDa

7.5% SDS PAGE



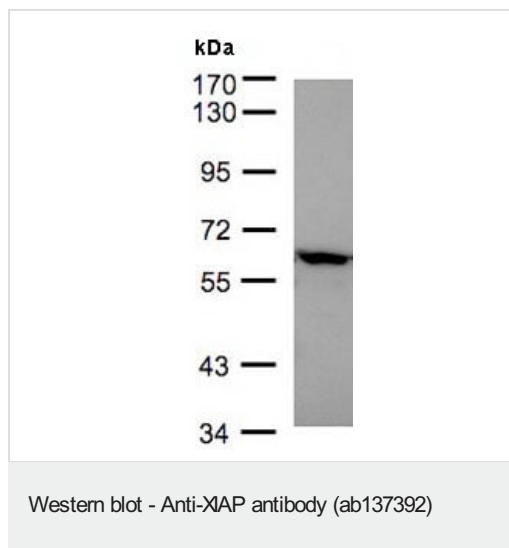
Immunocytochemistry/ Immunofluorescence - Anti-XIAP antibody (ab137392)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells, labelling XIAP with ab137392 at 1/200 dilution. Lower image is merged with DNA probe.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XIAP antibody (ab137392)

Immunohistochemical analysis of paraffin-embedded Human SW480 xenograft tissue, labelling XIAP with ab137392 at 1/500 dilution.



Anti-XIAP antibody (ab137392) at 1/1000 dilution + A549 whole cell lysate at 30 µg

Predicted band size: 57 kDa

7.5% SDS PAGE

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