Product datasheet

Anti-XIAP antibody ab137392

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.

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, 20% Glycerol
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

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.

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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

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<td>ICC/IF</td>
<td>1/100 - 1/1000.</td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. or Tris-EDTA buffer (pH 8.0)</td>
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**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.

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**Cellular localization**
Cytoplasm.

**Images**

**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

**why is the actual band size different from the predicted?**
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

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

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

**Western blot - Anti-XIAP antibody (ab137392)**

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

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