

## Product datasheet

# Recombinant human XIAP protein ab95933

[3 Images](#)

### Description

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<b>Product name</b>	Recombinant human XIAP protein
<b>Biological activity</b>	Specific Activity: 0.0015 pmol/min/μg Assay conditions: 4 mM ATP, 5mM MgCl <sub>2</sub> (both required for reaction), 1mM DTT, E1 (0.5 μg), E2 (2.8 μg), Biotinylated Ubiquitin (1 μg) in 50mM Tris pH 7.4. Specific Activity: 0.0015 pmol/min/μg Assay conditions: 4 mM ATP, 5mM MgCl <sub>2</sub> (both required for reaction), 1mM DTT, E1 (0.5 μg), E2 (2.8 μg), Biotinylated Ubiquitin (1 μg) in 50mM Tris pH 7.4.
<b>Purity</b>	> 65 % SDS-PAGE. Affinity purified.
<b>Expression system</b>	Baculovirus infected insect cells
<b>Accession</b>	<b><u>P98170</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	57 kDa including tags
<b>Amino acids</b>	2 to 497
<b>Tags</b>	DDDDK tag N-Terminus

### Specifications

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Our **Abpromise guarantee** covers the use of **ab95933** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE Western blot
<b>Form</b>	Liquid

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C.
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pH: 8.00

Constituents: 0.0462% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

104 µg/ml FLAG peptide

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

### 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

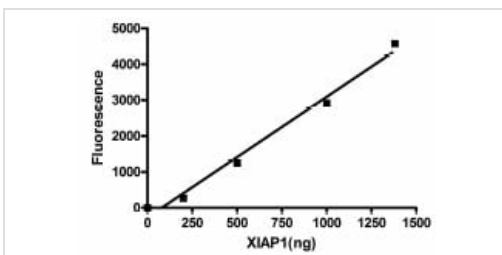
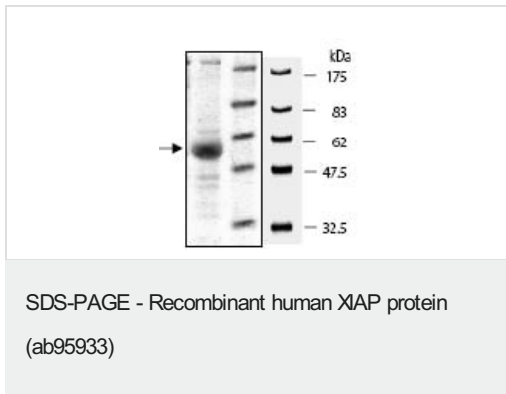
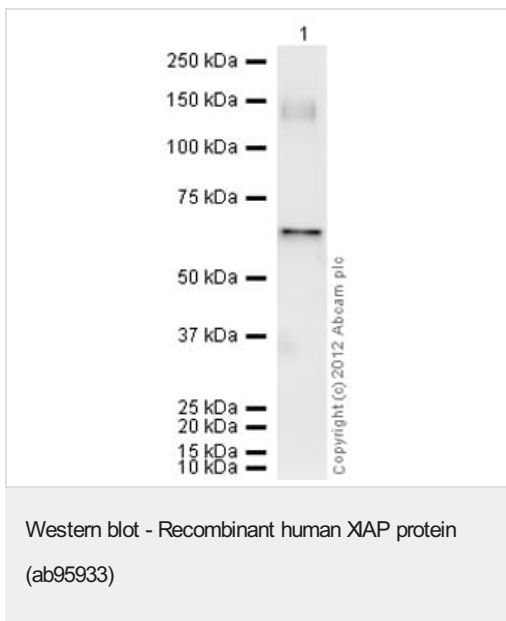


Image showing specific activity of ab95933.

Functional Studies - Recombinant human XIAP protein (ab95933)



SDS-PAGE showing ab95933 at approximately 57kDa (5µg).



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

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