

Product datasheet

XIAP peptide ab38275

Overview

Product name XIAP peptide

Description

Nature Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab38275** in the following tested applications.

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

Applications Blocking - Blocking peptide for Anti-XIAP antibody ([ab2541](#))
Western blot

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Preservative: 0.02% Thimerosal (merthiolate)
Constituents: 0.1% BSA, PBS, pH 7.2

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.

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