**Product datasheet**

**Anti-XIAP antibody ab21278**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-XIAP antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to XIAP</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: IHC-P, ICC/IF, WB</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to 13 amino acids at the C-terminus of human XIAP.</td>
</tr>
<tr>
<td>Positive control</td>
<td>Human kidney cell lysate.</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.02% Sodium azide Constituent: PBS</td>
</tr>
<tr>
<td>Purification notes</td>
<td>Purified by ion exchange chromatography.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

**Applications**

Our Abpromise guarantee covers the use of ab21278 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 2 µg/ml.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>Use a concentration of 5 µg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 55 kDa.</td>
</tr>
</tbody>
</table>
**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**

![Immunohistochemistry](https://example.com/immunohistochemistry.png)

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of mouse kidney tissue staining XIAP with ab21278 at 20µg/ml**

![Immunohistochemistry](https://example.com/immunohistochemistry.png)

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XAP antibody (ab21278)**
Immunohistochemistry (Formalin-fixed paraffin embedded sections) of mouse kidney tissue labeling XIAP with Anti-XIAP antibody (ab21278) at 5μg/ml.

Lane 1: Anti-XIAP antibody (ab21278) at 0.5 µg/ml
Lane 2: Anti-XIAP antibody (ab21278) at 1 µg/ml
Lane 3: Anti-XIAP antibody (ab21278) at 2 µg/ml

All lanes: Human kidney lysate

Predicted band size: 55 kDa

Western blot analysis of XIAP in human kidney cell lysate using ab21278 at a concentration of 0.5µg/ml (lane A), 1µg/ml (lane B) and 2µg/ml (lane C).
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XIAP antibody (ab21278)

Ab21278 at 2µg/ml staining XIAP in human kidney tissue by IHC

Immunocytochemistry/Immunofluorescence - Anti-XIAP antibody (ab21278)

ICC/IF image of ab21278 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab21278, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Western blot - Anti-XIAP antibody (ab21278)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"
Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors