Product datasheet

Anti-XAF1 antibody ab17204

Overview

Product name: Anti-XAF1 antibody

Description: Rabbit polyclonal to XAF1

Host species: Rabbit

Tested applications: Suitable for: ICC/IF, WB, IHC-P

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide (Human) (within the last 35 amino acids of C terminal end).

Positive control: Human spleen cell lysate.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C.

Storage buffer: Preservative: 0.02% Sodium azide
Constituent: PBS

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab17204 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>ICC/IF</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use at an assay dependent concentration. PubMed: 18485100</td>
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<tr>
<td>WB</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 32 kDa. Can be blocked with Human XAF1 peptide (ab39906). A higher 50kDa band is present at times (lot dependent). This band is not blocked by the immunogen. We do not know the identity of this extra band.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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</table>
**Function**

Seems to function as a negative regulator of members of the IAP (inhibitor of apoptosis protein) family. Inhibits anti-caspase activity of BIRC4. Induces cleavage and inactivation of BIRC4 independent of caspase activation. Mediates TNF-alpha-induced apoptosis and is involved in apoptosis in trophoblast cells. May inhibit BIRC4 indirectly by activating the mitochondrial apoptosis pathway. After translocation to mitochondria, promotes translocation of BAX to mitochondria and cytochrome c release from mitochondria. Seems to promote the redistribution of BIRC4 from the cytoplasm to the nucleus, probably independent of BIRC4 inactivation which seems to occur in the cytoplasm. The BIRC4-XAF1 complex mediates down-regulation of BIRC5/survivin; the process requires the E3 ligase activity of BIRC4. Seems to be involved in cellular sensitivity to the proapoptotic actions of TRAIL. May be a tumor suppressor by mediating apoptosis resistance of cancer cells.

**Tissue specificity**

Widely expressed. Expression is frequently down-regulated in cancer cell lines. Isoform 5 is widely expressed. Expressed in placenta (at protein level).

**Sequence similarities**

Contains 1 TRAF-type zinc finger.

**Developmental stage**

Selectively expressed in third trimester placenta.

**Cellular localization**


**Images**

Lane 1: Anti-XAF1 antibody (ab17204) at 0.5 µg/ml
Lane 2: Anti-XAF1 antibody (ab17204) at 1 µg/ml
Lane 3: Anti-XAF1 antibody (ab17204) at 2 µg/ml
Lane 1: Human spleen lysate
Lanes 2-3: Human spleen lysate

**Observed band size:** 32 kDa

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

Western blot analysis of XAF1 in human spleen lysate with ab17204 at
Lane A: 0.5 µg/ml
Lane B: 1µg/ml
Lane C: 2µg/ml

Higher 50kDa band presence is lot dependent. This band is not blocked by the immunogen.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XAF1 antibody (ab17204)

ab17204 at 2µg/ml staining XAF1 in human spleen tissue by IHC

ICC/IF image of ab17204 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 (ab17204, 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.

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