

XAF-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10529**Specification**

XAF-1 Antibody - Product Information

Application	WB
Primary Accession	Q6GPH4
Other Accession	CAA68030
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34626

XAF-1 Antibody - Additional Information**Gene ID** 54739**Application & Usage**

Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Jurkat cell lysate can be used as the positive control. The antibody recognizes 34 kDa XAF-1 from samples of human origins. Reactivity to other species has not been tested.

Other Names

XAF 1 , XIAP , HSXIAPAF1 , HSXIAPAF 1 , BIRC4 , BIRC 4

Target/Specificity

XAF-1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) Protein A affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

XAF-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

XAF-1 Antibody - Protein Information

Name XAF1

Synonyms BIRC4BP, XIAPAF1

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.

Cellular Location

Cytoplasm. Nucleus. Mitochondrion. Note=Found in the cytoplasm and nucleus of placental syncytiotrophoblasts Translocates to mitochondria upon TNF-alpha treatment [Isoform 5]; Nucleus.

Tissue Location

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

XAF-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

XAF-1 Antibody - Images**XAF-1 Antibody - Background**

XAF-1 binds to XIAP, an inhibitor of caspases-3, -7, -9 and triggers its relocation from the cytosol to the nucleus. Overexpression of XAF-1 results in the neutralization of XIAP's ability to inhibit cell death. XAF-1 is normally expressed in all adult and fetal tissues but was found to be present in very low levels in a variety of cancer cell lines. In contrast, XIAP levels have been shown to be high in a majority of cell lines.