

Polyclonal Antibody to XAF1 (XIAP Associated Factor 1)



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Polyclonal Antibody to XAF1 (XIAP Associated Factor 1)

Catalog No : IMG-379
Formulation : 100 µg in 200 µl PBS containing 0.2% gelatin and 0.05% sodium azide. Sodium azide is highly toxic.
Isotype : Rabbit IgG
Clone : N/A
Purification : Protein G Chromatography
Species React : Human, Mouse
Host : Rabbit

Application
Western blot analysis: 1-2 µg/ml
IHC (paraffin): 1:100, see Straszewski-Chavez et al, 2007 for details.

Storage
Store at 4°C, stable for 6 months. For long-term storage, store at -20°C.

Recommended Positive Control: human liver

Background

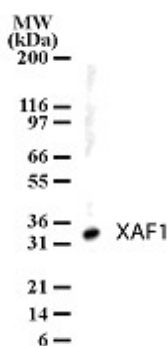
The inhibitors of apoptosis (IAP) proteins prevent cell death both in vitro and in vivo by virtue of inhibition of distinct caspases. The X-linked Inhibitor of Apoptosis, XIAP, is a key member of the IAP family of proteins. The caspase inhibiting activity of XIAP is negatively regulated by at least two XIAP-interacting proteins, XIAP-associated factor 1 (XAF1) and Smac/DIABLO. XAF1 binds to XIAP and antagonizes caspase inhibitory activities of XIAP. Expression of XAF1 triggers a redistribution of XIAP from the cytosol to the nucleus. XAF1 is ubiquitously expressed in normal tissues, but is present at low or undetectable levels in many different cancer cell lines.

Antigen

This antibody was developed against a mixture of KLH-conjugated synthetic peptides corresponding to aa 201-218 (NQTSTMEKDVRPKTRSIN) and 301-317 (QLDLEKERYKFKRFHF) of human XAF1, GenBank no. CAA68030.1.

Application Notes

In human liver, a 34 kDa band should be observed.



Western blot analysis of XAF1 in human liver lysates using IMG-379 at 1 µg/ml.

Related Products

- 20301 [Goat Anti-Rabbit HRP Conjugate]
- IMG-5142A [Polyclonal Antibody to beta Actin]
- IMG-5143A [Polyclonal Antibody to GAPDH]
- 40145 [Human Liver Tissue lysate]

Reference

- Holcik M, Gibson H, Korneluk RG. *Apoptosis* 6(4): 253-261 (2001).
- Liston P, Fong WG, Kelly NL, Toji S, Miyazaki T, Conte D, Tamai K, Craig CG, McBurney MW, Korneluk RG. *Nat Cell Biol* 3(2): 128-133 (2001).
- Fong WG, Liston P, Rajcan-Separovic E, St Jean M, Craig C, Korneluk RG. *Genomics* 70(1): 113-122 (2000).

Product Citations

- Xaf1 can cooperate with TNF α in the induction of apoptosis, independently of interaction with XIAP.** Yan Xia, Rachel Novak, Jennifer Lewis, Colin S. Duckett, Andrew C. Phillips. *Molecular and Cellular Biochemistry*, Online First, January 2006. (WB)
- XAF1 mediates tumor necrosis factor- α -induced apoptosis and X-linked inhibitor of apoptosis cleavage by acting through the mitochondrial pathway.** Straszewski-Chavez, IP Visintin, N Karassina, G Los, P Liston, R Halaban, A Fadiel, and G Mor. *JBC* 282:13059-13072. **IHC (paraffin): normal human trimester placental tissue (Fig 1B): XAF1 expression was observed in the nucleus and cytoplasm of syncytiotrophoblasts of third trimester tissue. XAF1 expression was not detected in first trimester tissue.**

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3. X-linked inhibitor of apoptosis (XIAP) protein protects against caspase activation and tissue loss after neonatal hypoxia-ischemia. Wang X, C Zhu, X Wang, H Hagberg, L Korhonen, M Sandberg, D Lindholm, and K Blomgren. *Neurobiology of Disease* 16:179-189 (2004). **IHC (paraffin), Figs 5 and 6 (brain tissue from wild-type and XIAP transgenic mice)**

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