

XAF1 Antibody

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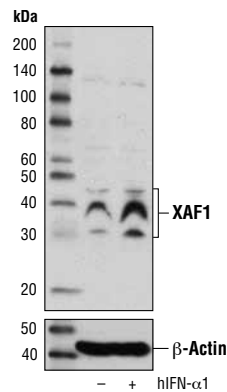
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W, IP Endogenous	Species Cross-Reactivity* H, (Mk)	Molecular Wt. 32, 38 kDa	Source Rabbit**
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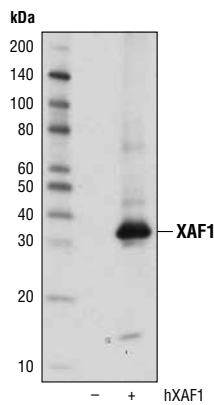
Background: X-linked inhibitor of apoptosis (XIAP)-associated factor 1 (XAF1) is a zinc finger protein that antagonizes the anti-apoptotic activity of XIAP (1,2). XIAP, a member of the inhibitor of apoptosis (IAP) family, inhibits apoptosis by direct inhibition of caspases (3; reviewed in 4). XAF1 is widely expressed in normal tissues, with highest levels in the heart and ovary, but is mostly reduced in cancer lines (1,2). Expression of XAF1 can be induced by interferons via Stat transcriptional activity (5-7). The levels of XAF1 have been shown to be inversely correlated with p53, and p53 is directly responsible for inhibiting XAF1 transcription (8,9). A number of studies have shown that XAF1 can function as a tumor suppressor protein, and decreased levels of XAF1 are found in a variety of different cancers (10-13). Research studies suggest that expression of XAF1 may be a prognostic biomarker for some cancers (14-16).

Specificity/Sensitivity: XAF1 Antibody recognizes endogenous levels of total XAF1 protein. Unknown background bands are observed at 45, 70, and 85 kDa.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val210 of human XAF1 protein. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from Jurkat cells, untreated (-) or treated with Human Interferon- α 1 (hIFN- α 1) #8927 (10 ng/ml, overnight; +) using XAF1 Antibody (upper) or β -Actin (D6A8) Rabbit mAb #8457 (lower).



Western blot analysis of extracts from 293T cells, mock transfected (-) or transfected with a construct expressing full-length human XAF1 isoform 1 (hXAF1; +) using XAF1 Antibody.

Entrez-Gene ID #54739
Swiss-Prot Acc. #Q99982

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background References:

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- (4) Goyal, L. (2001) *Cell* 104, 805-8.
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- (6) Sun, Y. et al. (2008) *Cancer Lett* 260, 62-71.
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- (11) Ng, K.C. et al. (2004) *J Invest Dermatol* 123, 1127-34.
- (12) Ma, T.L. et al. (2005) *Chin J Dig Dis* 6, 10-4.
- (13) Zou, B. et al. (2006) *Gastroenterology* 131, 1835-43.
- (14) Huang, J. et al. (2010) *Cancer Sci* 101, 559-67.
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.