

Mouse Anti-XIAP antibody

SLM-51607M

Product Name	XIAP
Chinese Name	X-连锁凋亡蛋白/性连锁凋亡抑制蛋白单克隆抗体
Alias	X-linked Inhibitor of Apoptosis Protein; RIAP-3; Baculoviral IAP repeat-containing protein 4; E3 ubiquitin-protein ligase XIAP; Inhibitor of apoptosis protein 3; X-linked IAP; IAP-like protein; HILP; BIRC4; HILP; XLP2; ILP1; Xiap; MIHA; hILP; IAP3; API3; XIAP_HUMAN; ILP; hILP; IAP-3; hIAP-3; hIAP3; X-linked inhibitor of apoptosis protein.
Research Area	Tumour Cell biology Apoptosis The new supersedes the old
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	D1G6
React Species	Human
Applications	WB=1:500-5000 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	55kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human XIAP
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]

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.

Subunit:

Monomer, and homodimer. Interacts with SMAC and with PRSS25; these interactions inhibit apoptotic suppressor activity. Interacts with MAP3K7IP1 and AIFM1. Interaction with SMAC hinders binding of MAP3K7IP1 and AIFM1. Interacts with TCF25.

Product Detail

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Ubiquitous, except peripheral blood leukocytes.

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.

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.

Similarity:

Belongs to the IAP family.

Contains 3 BIR repeats.
Contains 1 RING-type zinc finger.

SWISS:
P98170

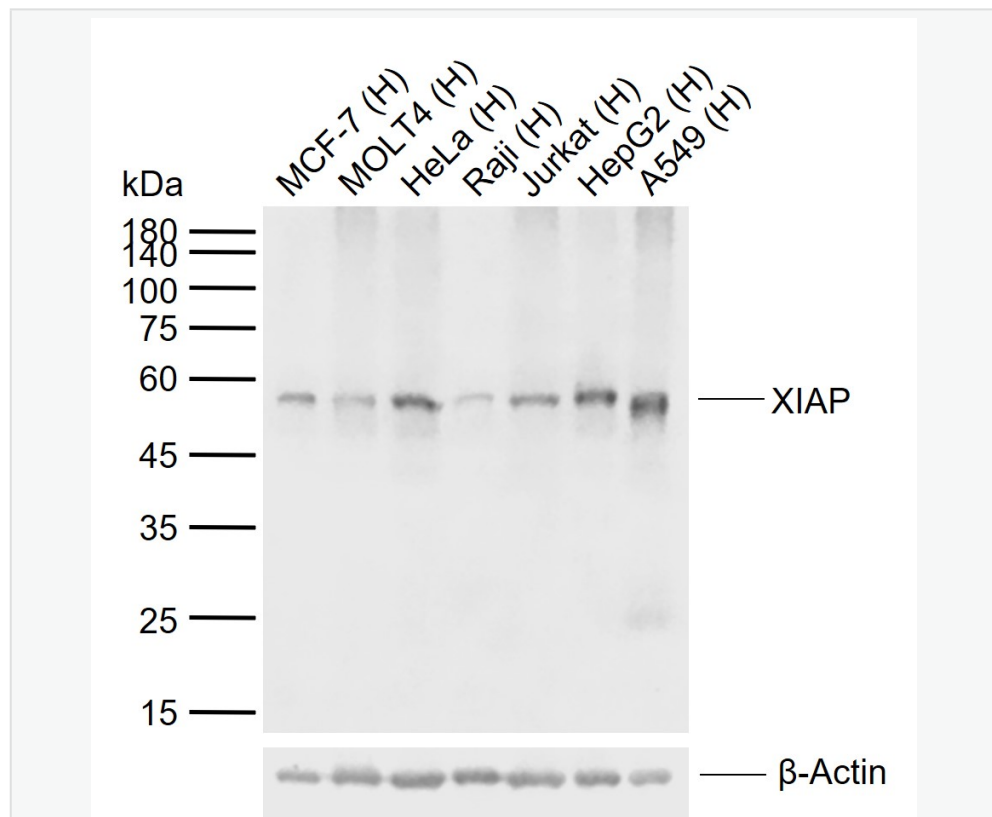
Gene ID:
331

Database links:

[Entrez Gene: 331](#) Human

[SwissProt: P98170](#) Human

Product Picture



Sample:

Lane 1: Human MCF-7 cell lysates

Lane 2: Human MOLT4 cell lysates

Lane 3: Human HeLa cell lysates

Lane 4: Human Raji cell lysates

Lane 5: Human Jurkat cell lysates

Lane 6: Human HepG2 cell lysates

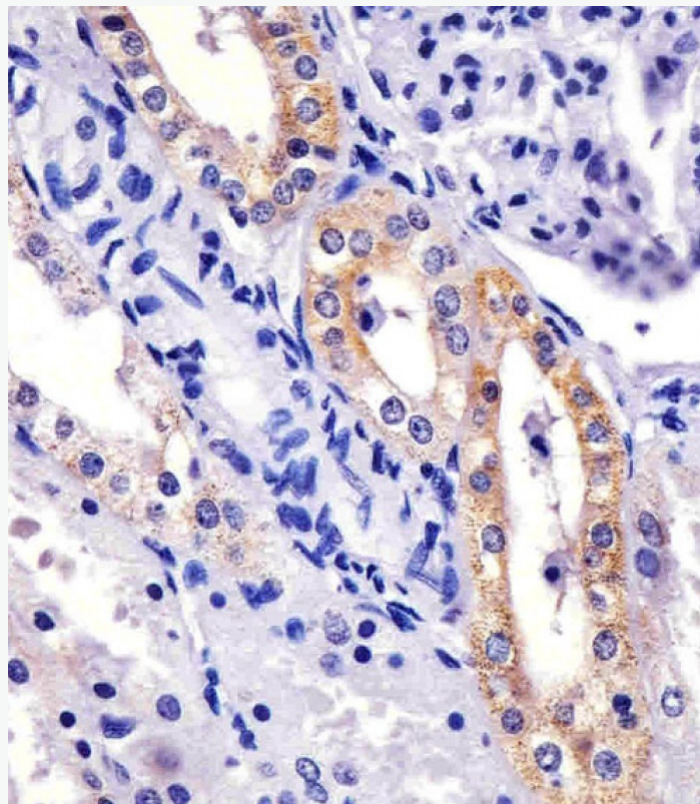
Lane 7: Human A549 cell lysates

Primary: Anti-XIAP (SLM-51607M) at 1/1000 dilution

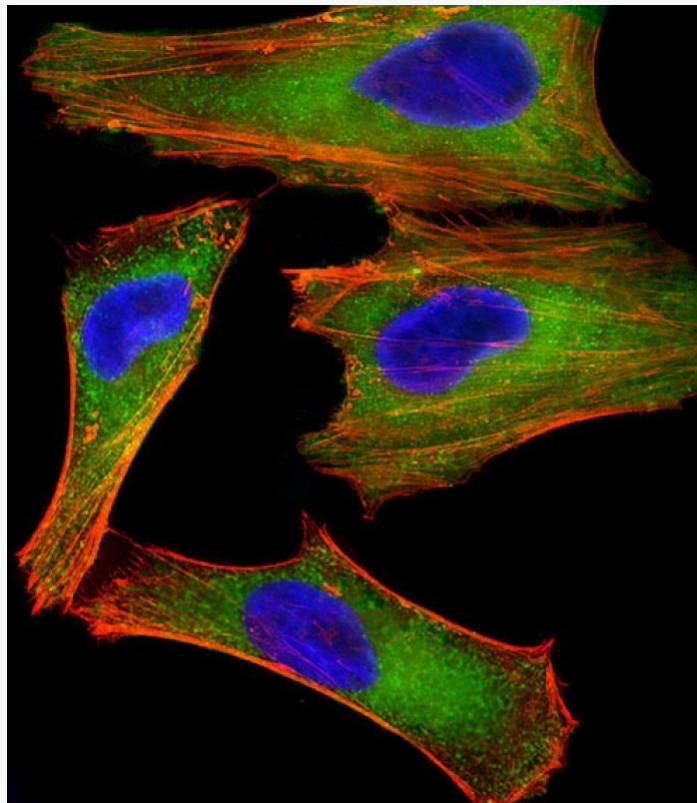
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 55 kDa

Observed band size: 55 kDa



Paraformaldehyde-fixed, paraffin embedded (Human kidney section);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min;
Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes;
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody
incubation with (XIAP) Monoclonal Antibody, Unconjugated
(SLM-51607M) at 1:200 overnight at 4°C, followed by operating
according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature
for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Antibody incubation with (XIAP) monoclonal Antibody, Unconjugated (SLM-51607M) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, Alexa Fluor® 555 conjugated with Phalloidin(red) was used to stain the cell Cytoplasmic actin.