Anti-XIAP Antibody [PSH04-30] - BSA and Azide free

HA750939

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Monkey
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	PSH04-30

Description: X-linked inhibitor of apoptosis protein (XIAP), also known as inhibitor of apoptosis protein 3 (IAP3) and baculoviral IAP repeat-containing protein 4 (BIRC4), is a protein that stops apoptotic cell death. In humans, this protein (XIAP) is produced by a gene named XIAP gene located on the X chromosome. XIAP is a member of the inhibitor of apoptosis family of proteins (IAP). IAPs were initially identified in baculoviruses, but XIAP is one of the homologous proteins found in mammals. It is so called because it was first discovered by a 273 base pair site on the X chromosome. The protein is also called human IAP-like Protein (hILP), because it is not as well conserved as the human IAPS: hIAP-1 and hIAP-2. XIAP is the most potent human IAP protein currently identified.

Immunogen: Recombinant protein within human XIAP aa 301-450 / 497.

Positive control: 293T cell lysate, MCF7 cell lysate, HT-29 cell lysate, A549 cell lysate, HeLa cell lysate, COS-1 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, mouse brain tissue lysate, rat brain tissue lysate, human breast cancer tissue, human colon tissue, rat colon tissue.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: P98170 Human | Q60989 Mouse | Q9R0I6 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:50

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

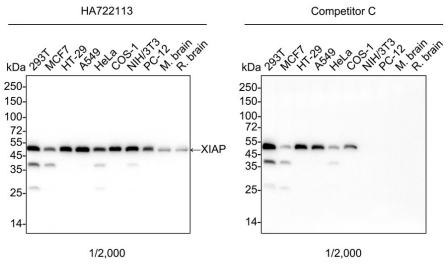

Fig1: Western blot analysis of XIAP on different lysates with Rabbit anti-XIAP antibody (HA750939) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution.

Lane 1: 293T cell lysate (20 µg/Lane)
Lane 2: MCF7 cell lysate (20 µg/Lane)
Lane 3: HT-29 cell lysate (20 µg/Lane)
Lane 4: A549 cell lysate (20 µg/Lane)
Lane 5: HeLa cell lysate (20 µg/Lane)
Lane 6: COS-1 cell lysate (20 µg/Lane)
Lane 7: NIH/3T3 cell lysate (20 µg/Lane)
Lane 8: PC-12 cell lysate (20 µg/Lane)
Lane 9: Mouse brain tissue lysate (20 µg/Lane)
Lane 10: Rat brain tissue lysate (20 µg/Lane)

Predicted band size: 57 kDa
Observed band size: 50 kDa
Exposure time: Lane 1-10 (left): 20 seconds; Lane 1-10 (right): 3 minutes; ECL: K1801; 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750939) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution were used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

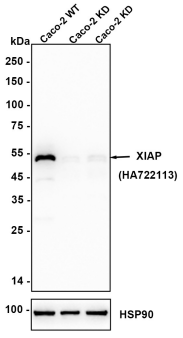

Fig2: Western blot analysis of XIAP with Rabbit anti-XIAP antibody (HA750939) at 1/2,000 dilution.

Lane 1: Wild-type Caco-2 whole cell lysate (10 µg/Lane)
Lane 2/3: XIAP knockdown Caco-2 whole cell lysate (10 µg/Lane)

Predicted band size: 57 kDa
Observed band size: 50 kDa
Exposure time: 1 minute; ECL: K1801; 4-20% SDS-PAGE gel.

HA750939 was shown to specifically react with XIAP in wild-type Caco-2 cells. Weakened bands were observed when XIAP knockdown samples were tested. Wild-type and XIAP knockdown samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (HA750939) at 1/2,000 dilution were used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

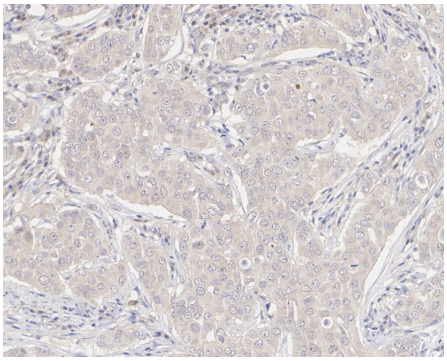

Fig3: Immunohistochemical analysis of paraffin-embedded human breast cancer tissue with Rabbit anti-XIAP antibody (HA750939) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA750939) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

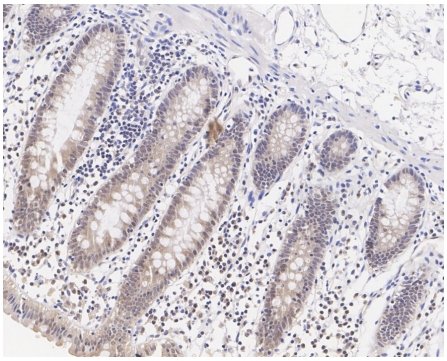

Fig4: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-XIAP antibody (HA750939) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA750939) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

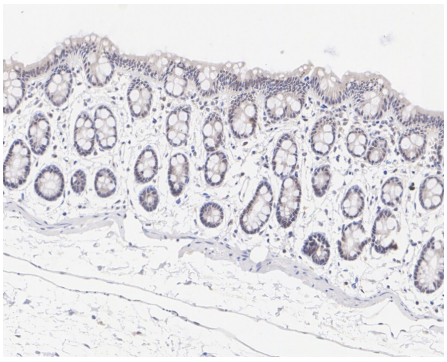

Fig5: Immunohistochemical analysis of paraffin-embedded rat colon tissue with Rabbit anti-XIAP antibody (HA750939) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA750939) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Hanifeh M et al. XIAP as a multifaceted molecule in Cellular Signaling. Apoptosis. 2022 Aug
2. Tu H et al. XIAP's Profile in Human Cancer. Biomolecules. 2020 Oct