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Mouse Xaf1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP19333c

Specification

Mouse Xaf1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q5NBU8

Mouse Xaf1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 327959

Other Names
XIAP-associated factor 1, BIRC4-binding protein, Xaf1, Birc4bp, Xiapaf1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Xaf1 Antibody (Center) Blocking Peptide - 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.

Mouse Xaf1 Antibody (Center) Blocking Peptide - Background

Xaf1 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 mitochondra, 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 (By similarity).

Mouse Xaf1 Antibody (Center) Blocking Peptide - References

Bai, Y., et al. J. Biol. Chem. 283(11):6832-6842(2008)Qiao, L., et al. Tumour Biol. 29(2):122-129(2008)Wang, X., et al. Neurobiol. Dis. 16(1):179-189(2004)Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)

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 (By similarity).

Cellular Location
Cytoplasm. Nucleus. Mitochondrion

Mouse Xaf1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides