FAIM2 Antibody
Catalog # ASC10109

Specification

FAIM2 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	Q9BWQ8
Other Accession	AAF06327, 6273281
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**FAIM2 antibody can be used for detection of FAIM2 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.**

FAIM2 Antibody - Additional Information

Gene ID   **23017**

Other Names
FAIM2 Antibody: LFG, LFG2, NGP35, NMP35, TMBIM2, KIAA0950, LFG, Protein lifeguard 2, Fas apoptotic inhibitory molecule 2, Fas apoptotic inhibitory molecule 2

Target/Specificity
FAIM2;

Reconstitution & Storage
FAIM2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
FAIM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FAIM2 Antibody - Protein Information

Name FAIM2

Synonyms KIAA0950, LFG, LFG2, NMP35, TMBIM2

Function
Antiapoptotic protein which protects cells uniquely from Fas- induced apoptosis. Regulates Fas-mediated apoptosis in neurons by interfering with caspase-8 activation. May play a role in cerebellar development by affecting cerebellar size, internal granular layer (IGL) thickness, and Purkinje cell (PC) development.

Cellular Location
Cell membrane; Multi-pass membrane protein. Membrane raft Postsynaptic cell membrane

Tissue Location
Highly expressed in breast carcinoma tissues. Enhanced expression correlates with the grade of the tumor (grade II/grade III) in primary breast tumors (at protein level). Widely expressed. Expressed at high levels in the brain especially in the hippocampus.
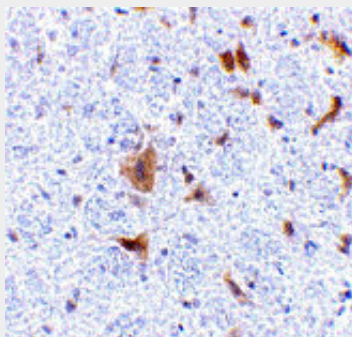
FAIM2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FAIM2 Antibody - Images
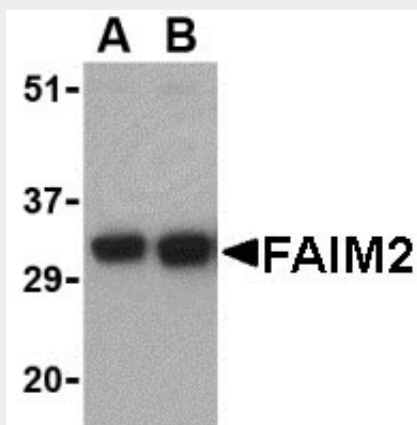
Western blot analysis of FAIM2 in EL4 cell lysate with FAIM2 antibody at (A) 0.5 and (B) 1 µg/mL.

Immunohistochemistry of FAIM2 in mouse brain tissue with FAIM2 antibody at 5 µg/mL.

FAIM2 Antibody - Background

FAIM2 Antibody: Programmed cell death regulates a number of biological processes such as normal

organism development, tissue homeostasis, and removal of damaged cells. Disruption of this process has been implicated in a variety of diseases such as cancer. FAIM2 is a recently identified protein that can inhibit the apoptotic signal transduced by the Fas receptor but not from the related tumor necrosis factor-alpha death signal. In this respect, FAIM2 is functionally similar to the anti-apoptotic proteins FAIM, FLIP and Bcl-xL. FAIM2, a seven membrane spanning protein, can bind the Fas receptor but does not regulate Fas expression or inhibit binding of FADD to Fas. FAIM2 is widely distributed, but highly expressed in the hippocampus and other neural tissues. FAIM2 was also identified as the neural membrane protein 35 (NMP35) and its expression is known to be regulated by the Phosphatidylinositol 3-kinase-Akt/PKB pathway.

FAIM2 Antibody - References

Lockshin RA, Osborne B, and Zakeri Z. Cell death in the third millennium. Cell Death Differ. 2000; 7:2-7.
Somia NV, Schmitt MJ, Vetter DE, et al. FAIM2: an anti-apoptotic gene that provides protection from Fas-mediated cell death. Proc. Natl. Acad. Sci. USA 1999; 96:12667-72.
Schneider TJ, Fischer GM, Donohoe TJ, et al. A novel gene coding for a Fas apoptosis inhibitory molecule (FAIM) isolated from inducibly Fas-resistant B lymphocytes. J. Exp. Med. 1999; 189:949-55.
Schweitzer B, Taylor V, Welcher AA, et al. Neural membrane protein 35 (NMP35): a novel member of a gene family which is highly expressed in the adult nervous system. Mol. Cell. Neurosci. 1998; 11:260-73.