Revision 1

Store at -20C

#6907

FAIM Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	19	Rabbit	#Q9NVQ4	55179

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

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

Specificity/Sensitivity

FAIM Antibody recognizes endogenous levels of total FAIM protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly145 of human FAIM protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

FAIM (Fas apoptosis inhibitory molecule) was identified as a protein that was inducibly expressed in B lymphocytes resistant to Fas-mediated apoptosis (1). Expression of FAIM inhibits receptor-mediated apoptosis in B cells as well as other cell types (1-3). FAIM is expressed in germinal center B cells, is positively regulated by IRF-4, and is also capable of inducing IRF-4 expression in a feed-forward mechanism (4). FAIM also regulates T cell receptor-mediated apoptosis by modulating Akt activation and Nur77 expression (2). Knockout mice for FAIM show an increased sensitivity to Fas-mediated apoptosis within B and T cells as well as hepatocytes (5). An alternatively spliced form of FAIM, termed FAIM-L, is found predominantly in the brain (6). In the nervous system, the originally identified FAIM does not appear to play a role in apoptosis, but rather can promote neurite outgrowth through the activation of Erk and NF-κB pathways (7). In contrast, FAIM-L does inhibit neuronal cell death triggered by death receptors (3).

Background References

1. Schneider, T.J. et al. (1999) *J Exp Med* 189, 949-56.
2. Huo, J. et al. (2010) *J Biol Chem* 285, 11827-35.
3. Segura, M.F. et al. (2007) *J Neurosci* 27, 11228-41.
4. Kaku, H. and Rothstein, T.L. (2009) *J Immunol* 183, 5575-81.
5. Huo, J. et al. (2009) *Cell Death Differ* 16, 1062-70.
6. Zhong, X. et al. (2001) *Mol Immunol* 38, 65-72.
7. Sole, C. et al. (2004) *J Cell Biol* 167, 479-92.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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