

#6907 Store at -20°C

FAIM Antibody


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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 19	Source: Rabbit	UniProt ID: #Q9NVQ4	Entrez-Gene Id: 55179
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Product Usage Information	Application Western Blotting	Dilution 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) <i>J Exp Med</i> 189, 949-56. 2. Huo, J. et al. (2010) <i>J Biol Chem</i> 285, 11827-35. 3. Segura, M.F. et al. (2007) <i>J Neurosci</i> 27, 11228-41. 4. Kaku, H. and Rothstein, T.L. (2009) <i>J Immunol</i> 183, 5575-81. 5. Huo, J. et al. (2009) <i>Cell Death Differ</i> 16, 1062-70. 6. Zhong, X. et al. (2001) <i>Mol Immunol</i> 38, 65-72. 7. Sole, C. et al. (2004) <i>J Cell Biol</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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