

# FAIM2 (H-21): sc-130663

## BACKGROUND

FAIM2 (fas apoptotic inhibitory molecule 2), also known as LFG (protein life-guard), TMBIM2 (transmembrane BAX inhibitor motif-containing protein 2) and NMP35 (neural membrane protein 35), is a 316 amino acid multipass membrane protein that uniquely protects cells from Fas-induced apoptosis. Though widely expressed, FAIM2 expression is highest in hippocampus. FAIM2 contains seven transmembrane domains and resembles Bax inhibitor-1, another anti-apoptotic protein. Overexpression of FAIM2 results in decreased caspase activation and reduced incidence of programmed cell death. Though mechanistically related to the Fas signal, FAIM2 does not protect cells from apoptosis that is mediated by TNF $\alpha$  signaling. FAIM2 specifically regulates apoptosis by binding to the FAS receptor.

## REFERENCES

- Schweitzer, B., et al. 1998. Neural membrane protein 35 (NMP35): a novel member of a gene family which is highly expressed in the adult nervous system. *Mol. Cell. Neurosci.* 11: 260-273.
- Somia, N.V., et al. 1999. LFG: an anti-apoptotic gene that provides protection from Fas-mediated cell death. *Proc. Natl. Acad. Sci. USA* 96: 12667-12672.

## CHROMOSOMAL LOCATION

Genetic locus: FAIM2 (human) mapping to 12q13.12; Faim2 (mouse) mapping to 15 F1.

## SOURCE

FAIM2 (H-21) is a protein G purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of FAIM2 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

FAIM2 (H-21) is recommended for detection of FAIM2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for FAIM2 siRNA (h): sc-95999, FAIM2 siRNA (m): sc-145009, FAIM2 shRNA Plasmid (h): sc-95999-SH, FAIM2 shRNA Plasmid (m): sc-145009-SH, FAIM2 shRNA (h) Lentiviral Particles: sc-95999-V and FAIM2 shRNA (m) Lentiviral Particles: sc-145009-V.

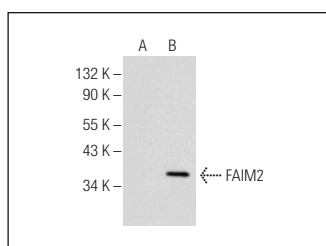
Molecular Weight of FAIM2: 35 kDa.

Positive Controls: FAIM2 (h): 293T Lysate: sc-371178, mouse brain extract: sc-2253 or rat brain extract: sc-2392.

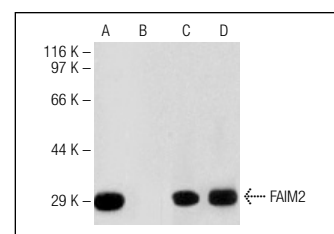
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



FAIM2 (H-21): sc-130663. Western blot analysis of FAIM2 expression in non-transfected: sc-117752 (A) and human FAIM2 transfected: sc-371178 (B) 293T whole cell lysates.



FAIM2 (H-21): sc-130663. Western blot analysis of FAIM2 expression in human brain tissue extract in the absence (A) and the presence (B) of immunizing peptide, mouse brain (C) tissue extract and rat brain (D) tissue extract.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **FAIM2 (H-7): sc-398737**, our highly recommended monoclonal alternative to FAIM2 (H-21).