

# FAIM2 (H-72): sc-135120

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

FAIM2 (H-72) is a rabbit polyclonal antibody raised against amino acids 1-72 mapping at the N-terminus of FAIM2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

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

## PROTOCOLS

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

## APPLICATIONS

FAIM2 (H-72) 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FAIM2 (H-72) is also recommended for detection of FAIM2 in additional species, including equine, canine, bovine and porcine.

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.

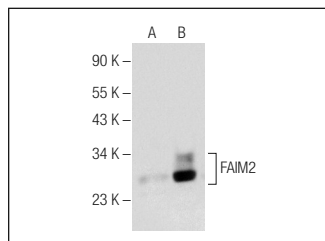
Molecular Weight of FAIM2: 35 kDa.

Positive Controls: FAIM2 (h): 293T Lysate: sc-371178, FAIM2 (m): 293T Lysate: sc-120159 or rat brain extract: sc-2392.

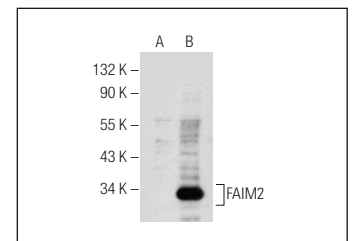
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



FAIM2 (H-72): sc-135120. Western blot analysis of FAIM2 expression in non-transfected: sc-117752 (A) and mouse FAIM2 transfected: sc-120159 (B) 293T whole cell lysates.



FAIM2 (H-72): sc-135120. Western blot analysis of FAIM2 expression in non-transfected: sc-117752 (A) and human FAIM2 transfected: sc-371178 (B) 293T whole cell lysates.

## RESEARCH USE

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

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Try **FAIM2 (H-7): sc-398737**, our highly recommended monoclonal alternative to FAIM2 (H-72).