

## FAIM-L Antibody

#Cat: NB-19-0008

Size: 0,1ml

### Immunogen Data

**Description:** Fas apoptosis inhibitory molecule (FAIM) was characterized as an inhibitor of the Death Receptor Fas that was upregulated in B-cells resistant to Fas-mediated cell death (1). Later, an alternative spliced form containing 22 aa longer at the N-terminus was reported and named FAIM long (FAIML) (2). It has been recently reported that FAIML is almost exclusively expressed in the nervous system, where it antagonizes death receptor-triggered apoptosis (3).

**Immunogen:** Peptide SGDDSPIFEDDESPLC (amino acids 3–18). Corresponds to a part of the differential sequence between FAIML and FAIMS isoforms.

**Alternative names:** FAIM Long, FAIM-L, FAIM1.

**UniProt ID:** Q8R5H8-1.

**Mol. Weight:** 22.7 kDa.

### Antibody Data

**Host:** Rabbit

**Clonality:** Polyclonal

**Species Reactivity:** Human, Mouse and Rat.

**Volume:** 100 µl

**Purity:** Crude polyclonal rabbit serum.

**Storage Instruction:** Aliquot and store at -20°C for short term or -80°C for long term. Avoid freeze-thaw cycles.

### Tested applications

Western Blot, Immunohistochemistry (frozen sections) and Immunofluorescence.

The usefulness of this product in other applications has not been determined.

#### Recommended Dilutions:

**WB:** 1:10000

**IHC:** 1:600

**IF:** 1:600

### Background references

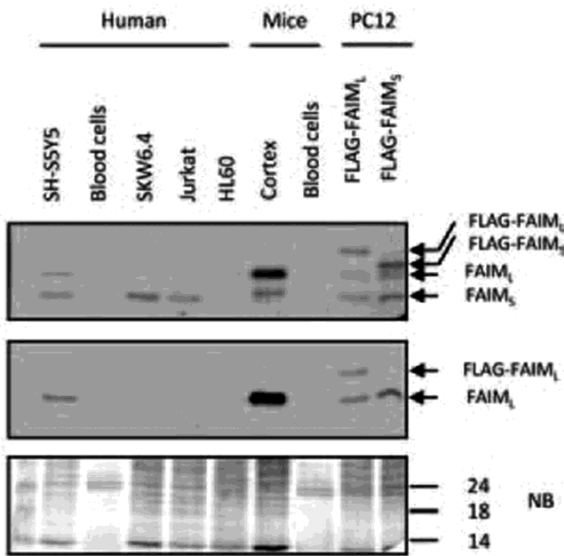
(1) Schneider TJ et al. (1999) *J Exp Med.* 189:949–956.

(2) Zhong X et al. (2001) *Mol Immunol.* 38:65–72.

### Applicated references

(3) Segura MF et al. (2007) *J Neurosci* 27:11228-11241 (2007).

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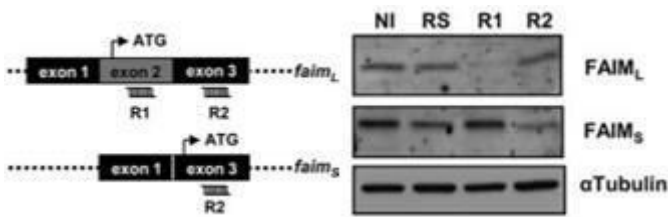


From Segura MF et al.(2007) J. Neurosci.

**1. Immunoblot analysis of the FAIML expression in human and mouse hem** Cortical neurons, neuroblastoma SH-SY5Y, and transfected PC12 extracts were used as a positive control of the FAIML and total FAIM expression. 20  $\mu$ g of total protein were resolved by SDS-PAGE and blotted with anti-FAIMS (top panel) and FAIML NB-19-0008 (middle panel). Naphtol blue staining was used as a loading control (bottom panel). **atopoietic/immune cells (3).**

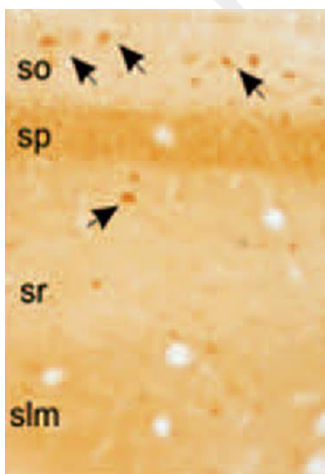
**2.The Western Blot signal, coming from endogenous FAIM- L, is reduced in extracts from cultured cells with FAIM-L gene silencing driven by shRNA interference (3).** Scheme of FAIML- and FAIMS-targeted RNAi design.

Positions for the different RNAi are indicated, R1 is sequence specific for FAIML, and R2 is in the common sequence and specifically silences the FAIMS (top panel). PC12 cells were infected with R1, R2, or RS (scrambled) for 72 h, and the effects on endogenous FAIMS/L expression were analyzed by Western blot with anti-FAIM antibodies (bottom panel).  $\alpha$ -Tubulin was used as a loading control.



From Segura MF et al.(2007) J. Neurosci.

**3. Distribution of FAIML-immunoreactive cells in the hippocampus of mice brain (3).** Immunohistochemistry of P10 hippocampus sample. Sections of 100  $\mu$ M were incubated overnight with NB-19-0008. This primary antibody was visualized by sequential incubation with biotinylated secondary antibodies (1:200; Vector Laboratories, Burlingame, CA) and the streptavidine-peroxidase complex (1:400; Amersham Biosciences, Pittsburgh, PA). The peroxidase reaction was developed with diaminobenzidine and H<sub>2</sub>O<sub>2</sub>. Some hippocampal interneurons scattered in all hippocampal layers show a strong immunostained signal (arrows). so, stratum oriens; sp, stratum pyramidale; sr, stratum radiatum; slm, stratum lacunosum-moleculare; sm, stratum moleculare.



From Segura MF et al.(2007) J. Neurosci.



From Segura MF et al.(2007) J. Neurosci.

**4. Immunofluorescence localization (arrows) of FAIML proteins in cortical layer V at P5 (3).** After blocking, sections were incubated overnight with NB-19-0008 (1:600), and was visualized using secondary Alexa Fluor-conjugated antibodies. Sections were counterstained with Bisbenzimidazole, mounted onto slides, and viewed under confocal microscopy.

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