

#5122 Store at -20°C

## FAM129B Antibody



**Cell Signaling**  
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC, FC-FP	H Mk	Endogenous	95	Rabbit	#Q96TA1	64855

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:50  
1:50  
1:50

### 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

FAM129B Antibody recognizes endogenous levels of total FAM129B protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu705 of human Fam129B protein. Antibodies were purified by protein A and peptide affinity chromatography.

### Background

FAM129B/Niban-like protein 1 (family with sequence similarity 129, member B) belongs to a poorly characterized family of Niban proteins that also includes FAM129A/Niban and FAM129C/Niban-like protein 2. FAM129A/Niban is implicated in the ER stress response and is upregulated at the protein level in thyroid carcinoma (1,2). FAM129C/Niban-like protein 2 is preferentially expressed in B-cells and is one of five biomarkers upregulated in whole blood from patients with colorectal carcinoma (3,4). FAM129B is broadly expressed and has been shown to be a downstream target of B-Raf in melanoma cells (5). Though FAM129B does not appear to regulate cell growth and division, phosphorylation of FAM129B by B-Raf is essential for the invasive potential of melanoma and non-melanoma cell lines (5). Deletion of FAM129B in melanoma cells significantly impairs B-Raf/MEK/Erk-dependent invasion into the extracellular matrix (5).

### Background References

1. Sun, G.D. et al. (2007) *Biochem Biophys Res Commun* 360, 181-7.
2. Matsumoto, F. et al. (2006) *Hum Pathol* 37, 1592-600.
3. Boyd, R.S. et al. (2003) *Leukemia* 17, 1605-12.
4. Han, M. et al. (2008) *Clin Cancer Res* 14, 455-60.
5. Old, W.M. et al. (2009) *Mol Cell* 34, 115-31.

### 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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)  
**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### 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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