

FAM59A Antibody

Catalog # ASC11013

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9H706
Other Accession	Q9H706 , 125991851
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	97186
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	FAM59A antibody can be used for detection of FAM59A by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	64762
Other Names	GRB2-associated and regulator of MAPK protein, GRB2-associated and regulator of MAPK1, GAREM, C18orf11, FAM59A
Target/Specificity	FAM59A;
Reconstitution & Storage	FAM59A antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	FAM59A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GAREM1
Synonyms	C18orf11, FAM59A, GAREM
Function	[Isoform 1]: Acts as an adapter protein that plays a role in intracellular signaling cascades triggered either by the cell surface activated epidermal growth factor receptor and/or cytoplasmic protein tyrosine kinases. Promotes activation of the MAPK/ERK signaling pathway. Plays a role in the regulation of cell proliferation.
Tissue Location	Isoform 1 is ubiquitously expressed.

Background

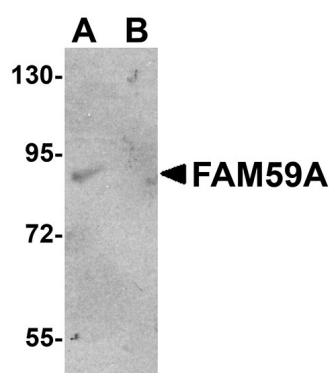
FAM59A Antibody: FAM59A, also known as GAREM, was initially identified through a mass spectroscopic method that measures different phosphotyrosine states of proteins in response to different cell stimuli. FAM59A is a downstream molecule in the EGF signaling pathway that is tyrosine-phosphorylated, and this phosphorylation is needed for the binding of Grb2, an adaptor protein crucial to the transduction of growth signals from the plasma membrane to the nucleus. ERK activation in response to EGF stimulation is regulated by FAM59A in COS-7 and HeLa cells, and the overexpression of FAM59A stimulated cell proliferation and colony formation in soft agar, suggesting that FAM59A might be a critical protein with roles in ligand-mediated signaling pathway of the EGF receptor and the tumorigenesis of cells.

References

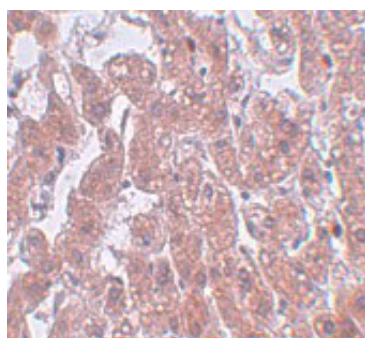
Blagoev B, Ong SE, Kratchmarova I, et al. Temporal analysis of phosphotyrosine-dependent signaling networks by quantitative proteomics. *Nat. Biotechnol.*2004; 22:1139-45.

Tashiro K, Tsunematsu T, Okubo H, et al. GAREM, a novel adaptor protein for growth factor receptor-bound protein 2, contributes to cellular transformation through activation of extracellular signal-regulated kinase signaling. *J. Biol. Chem.*2009; 284:20206-14.

Images

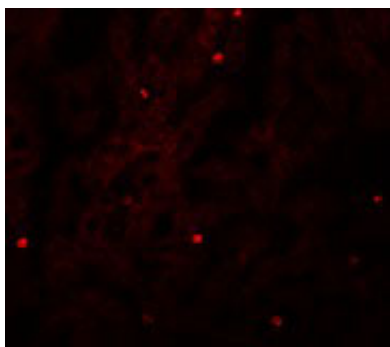


Western blot analysis of FAM59A in rat liver tissue lysate with FAM59A antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PLEKHM3 in human brain tissue with PLEKHM3 antibody at 5 $\mu\text{g/mL}$.

Immunofluorescence of FAM59A in Human Liver cells with FAM59A antibody at 20 $\mu\text{g/mL}$.



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