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FAM59A Antibody
Catalog # ASC11013

Specification

FAM59A Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9H706
Other Accession	Q9H706, 125991851
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**FAM59A antibody can be used for detection of FAM59A by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

FAM59A Antibody - Additional Information

Gene ID	**64762**

Target/Specificity
FAM59A;

Reconstitution & Storage
FAM59A antibody can be stored at 4℃ for three months and -20℃, 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.

FAM59A Antibody - 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.

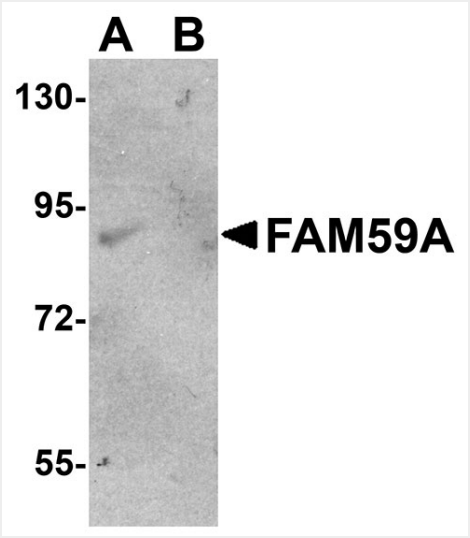
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FAM59A Antibody - Protocols

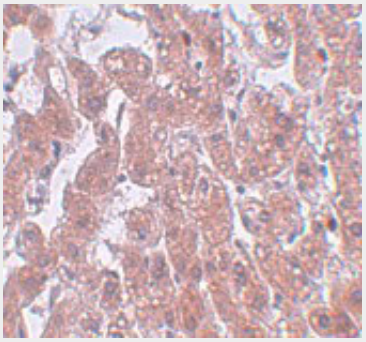
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FAM59A Antibody - Images

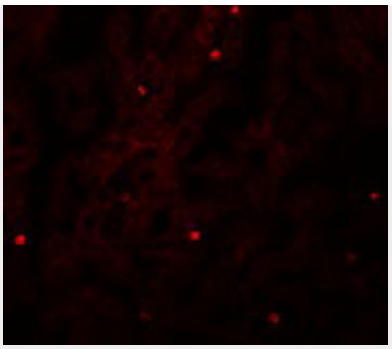


Western blot analysis of FAM59A in rat liver tissue lysate with FAM59A antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PLEKHM3 in human brain tissue with PLEKHM3 antibody at 5 µg/mL.

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Immunofluorescence of FAM59A in Human Liver cells with FAM59A antibody at 20 µg/mL.

FAM59A Antibody - Background

FAM59A Antibody: FAM59A, also known as GAREM, was initially identified through a mass spectroscoptic 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.

FAM59A Antibody - 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.