

FREM2 Antibody
Catalog # ASC11160**Specification**

FREM2 Antibody - Product Information

Application	WB, ICC, IF
Primary Accession	Q5SZK8
Other Accession	NP_997244 , 79749430
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	FREM2 antibody was raised against a 19 amino acid peptide near the center of human FREM2. Antibody can also be used for immunocytochemistry starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

FREM2 Antibody - Additional Information

Gene ID	341640
Target/Specificity	
FREM2;	

Reconstitution & Storage

FREM2 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

FREM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FREM2 Antibody - Protein Information

Name FREM2

Function

Extracellular matrix protein required for maintenance of the integrity of the skin epithelium and for maintenance of renal epithelia (PubMed:<[a href="http://www.uniprot.org/citations/15838507" target="_blank">15838507](http://www.uniprot.org/citations/15838507)). Required for epidermal adhesion (PubMed:<[a href="http://www.uniprot.org/citations/15838507" target="_blank">15838507](http://www.uniprot.org/citations/15838507)). Involved in the development of eyelids and the anterior segment of the eyeballs (PubMed:<[a href="http://www.uniprot.org/citations/29688405" target="_blank">29688405](http://www.uniprot.org/citations/29688405), PubMed:<[a href="http://www.uniprot.org/citations/30802441" target="_blank">30802441](http://www.uniprot.org/citations/30802441)).

Cellular Location

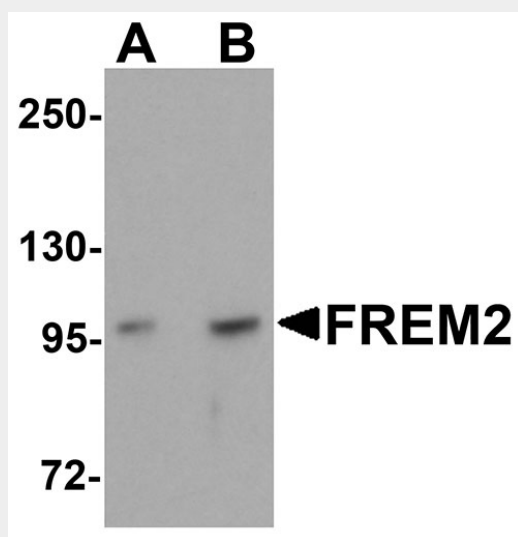
Cell membrane; Single-pass type I membrane protein

FREM2 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 Cytometry](#)
- [Cell Culture](#)

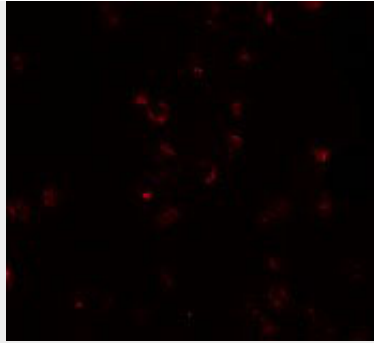
FREM2 Antibody - Images



Western blot analysis of FREM2 in A-20 cell lysate with FREM2 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunocytochemistry of FREM2 in A-20 cells with FREM2 antibody at 20 µg/mL.



Immunofluorescence of FREM2 in A20 cells with FREM2 antibody at 20 µg/mL.

FREM2 Antibody - Background

FREM2 Antibody: FREM2 is a member of the FRAS1-related extracellular matrix protein family and like FREM1, mutations in the FREM2 gene are associated with Fraser syndrome. FREM2 localizes to the basement membrane, forming a ternary complex that plays a role in epidermal-dermal interactions during morphogenetic processes and is thought to be required for maintaining the integrity of the skin epithelium and the differentiated state of renal epithelia. The FREM2 gene is one of several genes whose transcription is affected by TFAP2C, a transcription factor involved in mammary development, differentiation, and oncogenesis.

FREM2 Antibody - References

Jadjeda S, Smyth I, Pitera JE, et al. Identification of a new gene mutated in Fraser syndrome and mouse myelencephalic blebs. *Nat. Genet.*2005; 37:520-5.
Pavlakakis E, Makrygiannis AK, Chiokati R, et al. Differential localization profile of Fras1/Frem proteins in epithelial basement membranes of newborn and adult mice. *Histochem. Cell Biol.*2008; 130:785-93.
Timmer JR, Mak TW, Manova K, et al. Tissue morphogenesis and vascular stability require the Frem2 protein, product of the mouse myelencephalic blebs gene. *Proc. Natl. Acad. Sci. USA*2005; 102:11746-50.
Woodfield GW, Chen Y, Bair TB, et al. Identification of primary gene targets of TFAP2C in hormone responsive breast carcinoma cells. *Genes Chromosomes Cancer*2010; epub.