

**FREM1 Antibody**  
**Catalog # ASC11159****Specification**

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**FREM1 Antibody - Product Information**

Application	WB, ICC, IF
Primary Accession	<a href="#">Q5H8C1</a>
Other Accession	<a href="#">NP_659403</a> , <a href="#">122056683</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	FREM1 antibody can be used for detection of FREM1 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunocytochemistry starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

**FREM1 Antibody - Additional Information**

Gene ID	158326
Target/Specificity	
FREM1;	

**Reconstitution & Storage**

FREM1 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**

FREM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**FREM1 Antibody - Protein Information**

**Name** FREM1 ([HGNC:23399](#))

**Function**

Extracellular matrix protein that plays a role in epidermal differentiation and is required for epidermal adhesion during embryonic development.

**Cellular Location**

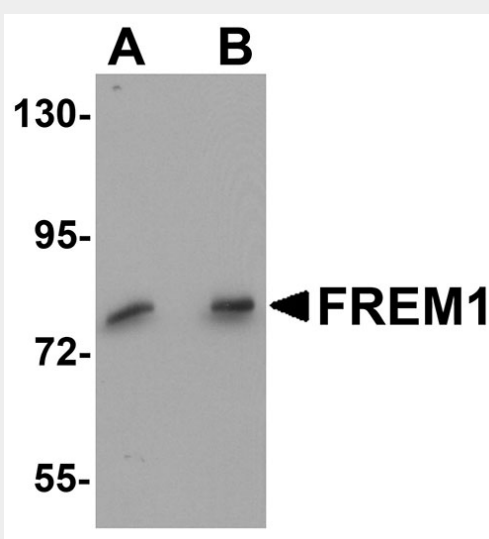
Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250|UniProtKB:Q684R7} Note=Localizes at the basement membrane zone of embryonic epidermis and hair follicles. {ECO:0000250|UniProtKB:Q684R7}

## FREM1 Antibody - Protocols

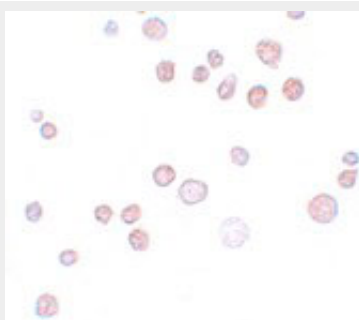
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

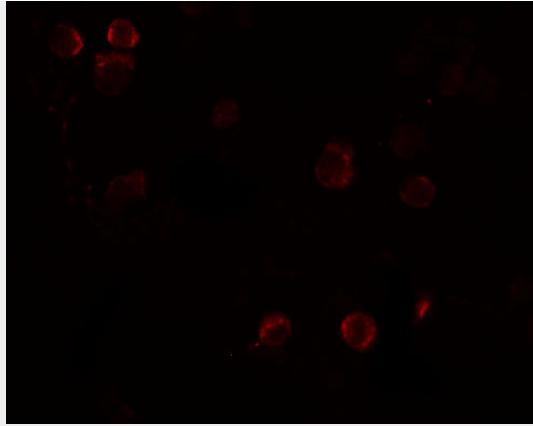
## FREM1 Antibody - Images



Western blot analysis of FREM1 in K562 cell lysate with FREM1 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunocytochemistry of FREM1 in K562 cells with FREM1 antibody at 20 µg/mL.



Immunofluorescence of FREM1 in K562 cells with FREM1 antibody at 20 µg/mL.

### **FREM1 Antibody - Background**

**FREM1 Antibody:** FREM1 is a member of the FRAS1-related extracellular matrix protein family and is thought to play a role in craniofacial and renal development. FREM1 functions as an extracellular matrix protein that is essential for epidermal adhesion during embryogenesis and may also participate in epidermal differentiation. It is recognized by cells in the embryonic skin and hair follicles through different members of the integrin family. Deficiency in the Fras1/Frem genes gives rise to the bleb phenotype, which is equivalent to the human hereditary disorder Fraser syndrome.

### **FREM1 Antibody - References**

Smyth I, Du X, Taylor MS, et al. The extracellular matrix gene FREM1 is essential for the normal adhesion of the embryonic epidermis. *Proc. Natl. Acad. Sci. USA* 2004; 101:13560-5.  
Kiyozumi D, Osada A, Sugimoto N, et al. Identification of a novel cell-adhesive protein spatiotemporally expressed in the basement membrane of mouse developing hair follicle. *Exp. Cell Res.* 2005; 306:9-23.  
Petrou P, Makrygiannis AK, Chalepakis G, et al. The FRAS1/FREM family of extracellular matrix proteins: structure, function, and association with Fraser syndrome and the mouse bleb phenotype. *Connect. Tissue Res.* 2008; 49:277-82.  
Zhang X, Shephard F, Kim HB, et al. TILRR, a novel IL-1RI co-receptor, potentiates MyD88 recruitment to control Ras-dependent amplification of NF-kappaB. *J. Biol. Chem.* 2010; 285:7222-32.