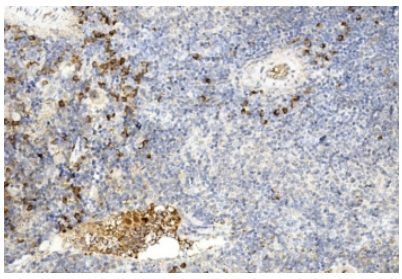
GREM1 Antibody / Gremlin 1 (F55099)

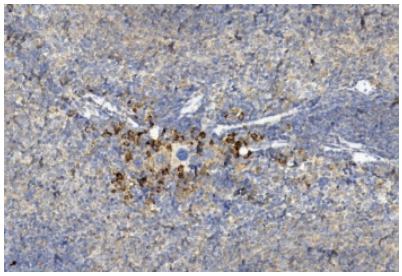
Catalog No.	Formulation	Size
F55099-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55099-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O70326
Applications	Western blot: 1:1000-1:2000 Immunohistochemistry (FFPE): 1:50-1:100
Limitations	This GREM1 antibody is available for research use only.



IHC staining of FFPE mouse spleen tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



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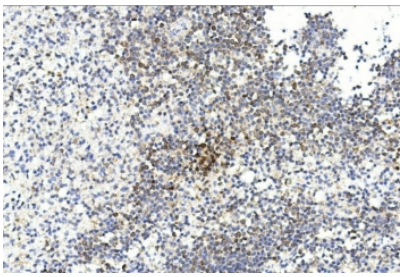
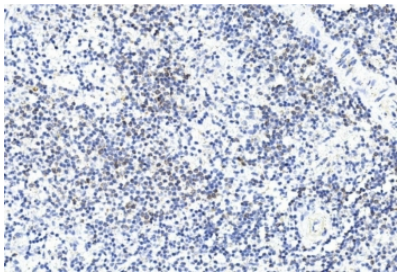
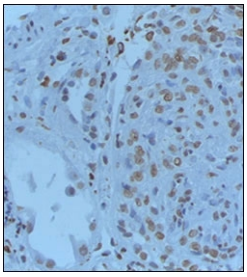


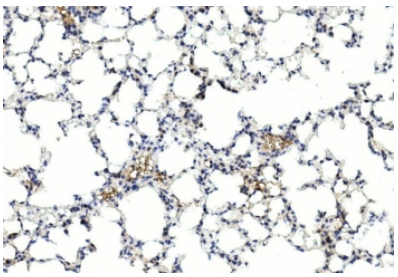
IHC staining of FFPE human spleen tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



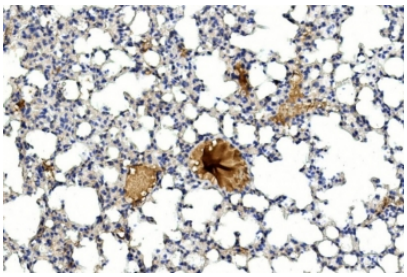
IHC staining of FFPE human spleen tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



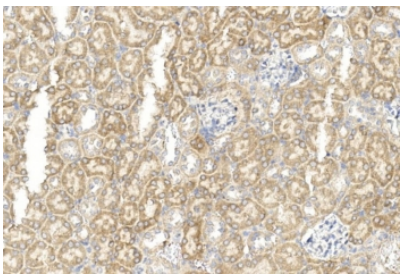
IHC staining of FFPE human renal tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



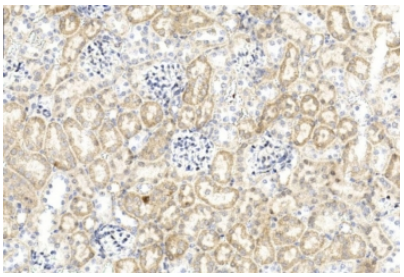
IHC staining of FFPE mouse lung tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



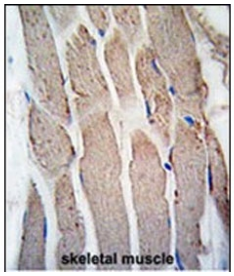
IHC staining of FFPE mouse lung tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



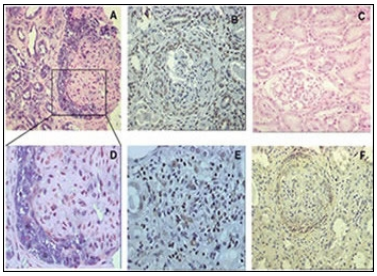
IHC staining of FFPE mouse kidney tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



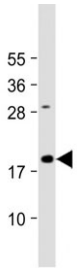
IHC staining of FFPE mouse kidney tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC staining of FFPE human skeletal muscle tissue with GREM1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



ISH and IMH demonstrating gremlin mRNA and gremlin protein in crescentic PECs and tubular epithelial cells of patients with pauci-immune crescentic GN. In comparison with normal renal tissue in which there is no expression of gremlin mRNA (C), proliferating PECs of glomerular crescents show a strong expression of gremlin mRNA by ISH (A); and gremlin protein expression by IMH (B); immune competent infiltrating interstitial cells are also strongly positive for gremlin staining (E); and CTGF was also expressed in these glomerular crescentic cells (F).



Western blot testing of mouse skeletal muscle tissue lysate with GREM1 antibody. Predicted molecular weight ~21 kDa.

Description

GREM1, also referred to as Gremlin 1, is a protein that plays a crucial role in a variety of biological processes, ranging from embryonic development to cancer progression. This multifunctional protein is a member of the BMP (Bone Morphogenetic Protein) antagonist family and is known for its ability to regulate cell growth, differentiation, and survival. One of the most intriguing aspects of GREM1 is its role in embryonic development. Studies have shown that this protein is essential for proper development of various tissues and organs, such as the lung, kidney, and limb. Additionally, GREM1 has been implicated in the formation of certain structures in the developing embryo, highlighting its importance in shaping the body's overall architecture. In addition to its role in embryonic development, GREM1 has also been linked to various diseases, particularly cancer. Research has shown that abnormal levels of Gremlin 1 are associated with tumor growth, invasion, and metastasis in several types of cancer, including colorectal, ovarian, and pancreatic cancer. This suggests that targeting GREM1 could potentially be a novel strategy for combating cancer progression. GREM1 has recently gained attention for its potential as a therapeutic target in certain diseases.

Application Notes

The stated application concentrations are suggested starting points. Titration of the GREM1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 147-175 from the human protein was used as the immunogen for the GREM1 antibody.

Storage

Aliquot the GREM1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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