



Rabbit Anti-GREM2 antibody

SL12592R

Product Name:	GREM2
Chinese Name:	骨形态形成蛋白拮抗蛋白2抗体
Alias:	BMP antagonist 2; CKTSF1B2; Cysteine knot superfamily 1; Cysteine knot superfamily 1 BMP antagonist 2; DAN domain family member 3; DAND 3; DAND3; GREM 2; Grem2; GREM2_HUMAN; Gremlin 2; Gremlin 2 cysteine knot superfamily homolog; Gremlin-2; Gremlin2; PRDC; Protein related to DAN and cerberus.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GREM2:22-110/168
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The gremlin protein family contains antagonists of bone morphogenetic protein (BMP) signaling that are expressed in the neural crest. All family members are secreted proteins that act as BMP antagonists in embryonic explants and are expressed in the proximal airway epithelium of the lung during embryonic development. Gremlin-1 is

required for early limb outgrowth and patterning in the FGF4-SHH feedback loop, while gremlin-2 binds and blocks the activity of BMP-2 and BMP-4. The dorsaling factor gremlin belongs to a novel gene family that includes the head-inducing factor Cerberus and the tumor suppressor DAN. Additionally, secreted gremlin relays the sonic hedgehog signal from the polarizing region to the apical ectodermal ridge.

Function:

Cytokine that inhibits the activity of BMP2 and BMP4 in a dose-dependent manner. Antagonized BMP4-induced suppression of progesterone production in granulosa cells.

Subcellular Location:

Secreted.

Similarity:

Belongs to the DAN family.
Contains 1 CTCK (C-terminal cystine knot-like) domain.

SWISS:

Q9H772

Gene ID:

64388

Database links:

[Entrez Gene: 64388](#) Human

[Entrez Gene: 23893](#) Mouse

[Omim: 608832](#) Human

[SwissProt: Q9H772](#) Human

[SwissProt: O88273](#) Mouse

[Unigene: 98206](#) Human

[Unigene: 25760](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.