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GREM2 Rabbit pAb

Catalog # AP99216

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H772
Other Accession	Q9H772
Predicted	Rat, Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19320
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GREM2
Epitope Specificity	22-110/168
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DAN family. Contains 1 CTCK (C-terminal cystine knot-like) domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	64388
Other Names	CKTSF1B2; DAND3; PRDC; STHAG9; Gremlin2; GREM2_HUMAN; GREM2; Cysteine knot superfamily 1, BMP antagonist 2; DAN domain family member 3; Protein related to DAN and cerberus; GREM2_MOUSE; Protein related to DAN and cerberus (PRDC); gremlin 2, DAN family BMP antagonist; gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis); gremlin 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	GREM2
Synonyms	CKTSF1B2, DAND3, PRDC
Function	Cytokine that inhibits the activity of BMP2 and BMP4 in a dose-dependent manner, and thereby modulates signaling by BMP family members. Contributes to the regulation of embryonic morphogenesis via BMP family members. Antagonizes BMP4-induced suppression of progesterone production in granulosa cells.
Cellular Location	Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.