

## Grem1

### Rabbit Anti-Mouse Gremlin-1 pAb

<b>Catalog No.</b>	CS420A CS420B	<b>Quantity:</b>	100 µg 200 µg
<b>Alternate Names:</b>	Cell proliferation-inducing gene 2 protein		
<b>Description:</b>	<p>Gremlin was identified in a <i>Xenopus</i> expression cloning screen as a dorsalizing factor that can induce a secondary axis. A rat homolog, called Drm, was identified as a cDNA that was down regulated in v Mos transfected cells. Gremlin/Drm belongs to the DAN family of secreted glycoproteins that are BMP antagonists. Other members of the family include: Cerberus, Dante, PRDC, Caronte and DAN. DAN family members share a cysteine-rich domain that is structurally related to the cysteine-knot motif found in TGFβ superfamily ligands. In vitro, Gremlin/Drm binds BMP4 and BMP2 indicating that it might interfere with BMP signaling. Gremlin/Drm acts as a BMP2/ 4 antagonist in a variety of tissues and developmental processes including: <i>Xenopus</i> animal cap explants, chick limb bud outgrowth and chondrogenesis, murine lung branching morphogenesis, and osteogenic differentiation of mouse myoblasts and bone marrow stromal cells. In addition, expression of Gremlin/Drm has been shown to be down-regulated in a wide range of human cancer cell lines. Mouse, human, chick and <i>Xenopus</i> homologs of Gremlin share over 80% amino acid identity. It is likely that various DAN family members and other BMP antagonists including Noggin, Chordin, Follistatin and TSG can selectively antagonize the activities of different subsets of TGFβ superfamily ligands. Rabbit anti-mouse Gremlin-1 polyclonal antibody was produced from the sera of rabbits pre-immunized with highly pure (&gt;95%) recombinant mouse Gremlin-1 (Lys25-Asp184) derived from <i>E. coli</i>.</p>		
<b>Gene ID:</b>	23892		
<b>Protein Accession No.:</b>	NP_035954.1		
<b>Host:</b>	Rabbit		
<b>Immunogen:</b>	Recombinant mouse Gremlin-1		
<b>Isotype:</b>	IgG		
<b>Formulation:</b>	Lyophilized from a solution in PBS		
<b>Purification:</b>	Protein A purified		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute in sterile water to a concentration of 0.1 -1.0 mg/ml.		

#### Applications:



Western Blot: use at 2-5 µg/ml

The optimal concentration should be determined by the user for each specific application.

**Storage & Stability:**

The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. **Avoid repeated freeze-thaw cycles.**

Western Analysis of anti-mouse Gremlin-1.

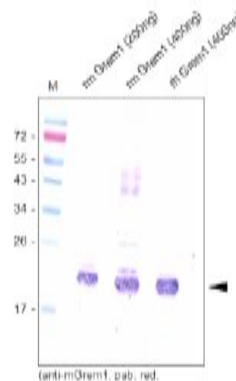
Samples were loaded in 15% SDS-polyacrylamide gel under reducing conditions.

Lane 1: Molecular Weight markers (kDa).

Lane 2: Recombinant Mouse Grem1 (200 ng).

Lane 3: Recombinant Mouse Grem1 (400 ng).

Lane 4: Recombinant Human Grem1 (400 ng).



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