

## GREM1

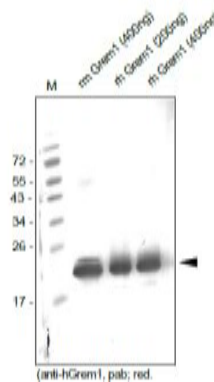
### Rabbit Anti-Human Gremlin-1 pAb

<b>Catalog No.</b>	CS419A CS419B	<b>Quantity:</b>	100 µg 200 µg
<b>Alternate Names:</b>	Cell proliferation-inducing gene 2 protein		
<b>Description:</b>	<p>Gremlin, also known as "Increased in High Glucose protein 2" (IHG2) and "Down regulated in Mos-transformed cells protein" (Drm), is a 28 kDa member of the Dan family of secreted glycoproteins. Native human Gremlin consist of 160 amino acids. The mature region contains one potential site for N-linked glycosylation (Asn42), a cysteine-rich region, and a cysteine-knot motif (aa 94-184) whose structure is shared by members of the TGFβ superfamily. Human Gremlin exists in both secreted and membrane-associated forms and there exist 2 isoforms. Gremlin functions as a bone morphogenetic protein (BMP) antagonist. It acts by binding to, and forming heterodimers with, BMP2, BMP4, and BMP7, thus preventing them from interacting with their cell surface receptors. This mechanism is thought to be responsible for the pattern-inducing activity of Gremlin during embryonic development and to play a role in human diseases, such as diabetic nephropathy. However, intracellular BMP-independent mechanisms of action may mediate the ability of Gremlin to suppress transformation and tumor genesis under certain experimental conditions. Gremlin also interacts with Slit proteins and acts as an inhibitor of monocyte chemotaxis. In addition, Gremlin has been found to be a proangiogenic factor expressed by endothelium. Furthermore, Gremlin is a novel agonist of the major proangiogenic receptor VEGFR2.</p> <p>Rabbit anti-Human Gremlin-1 polyclonal antibody is produced from the sera of rabbits pre-immunized with highly pure (&gt;95%) recombinant human Gremlin-1 (Lys25-Asp184) derived from <i>E. coli</i>.</p>		
<b>Gene ID:</b>	26585		
<b>Protein Accession No.:</b>	NP_001178252.1		
<b>Host:</b>	Rabbit		
<b>Immunogen:</b>	Recombinant human 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, but best stored below 4°C. After reconstitution, the antibody is stable for at least two weeks at 2-4°C. Frozen aliquots are stable for at least 6 months when stored at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

Western Analysis of anti-human Gremlin-1.  
Samples were loaded in 15% SDS-polyacrylamide gel under reducing conditions.  
Lane 1: Molecular Weight markers (kDa).  
Lane 2: Recombinant Mouse Grem1 (400 ng).  
Lane 3: Recombinant Human Grem1 (200 ng).  
Lane 4: Recombinant Human Grem1 (400 ng)



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

