

## Product Description for Gremlin-1 / GREM1

anti Gremlin-1 / GREM1.  
Control Peptide

## Properties for Gremlin-1 / GREM1

<b>Product Category</b>	Antibodies
<b>Quantity</b>	0.1 mg
<b>Synonyms</b>	CKTSF1B1, DAND2, DRM, GREM-1, IHG-2, PIG2
<b>Synonyms2</b>	Cell proliferation-inducing gene 2 protein, Cysteine knot superfamily 1 BMP antagonist 1, DAN domain family member 2

## Datasheet Extract

<b>Immunogen</b>	<b>Swiss Prot Num:</b>  O60565
<b>Property</b>	control peptide
<b>Specificity</b>	<b>Specificity:</b>  GREMLIN Antibody (C-term) Blocking Peptide
<b>Add. information</b>	<b>Molecular Weight:</b> . This peptide is for use with antibody AP13096PU-N only.
<b>Background</b>	Using a Xenopus expression-cloning screen, Gremlin was isolated as an antagonist of bone morphogenetic protein (BMP) signaling that is expressed in the neural crest. Gremlin belongs to a novel gene family that includes the head-inducing factor Cerberus and the tumor suppressor DAN. All these family members are secreted proteins that act as BMP antagonists in embryonic explants. The proposed function of Gremlin, Cerberus, and DAN is a BMP signaling blocking activity by binding BMPs, preventing them from interacting with their receptors. Gremlin, Cerberus, and DAN may control diverse processes in growth and development by selectively antagonizing the activities of different subsets of the transforming growth factor (TGF)-beta ligands. By homology searches, Hsu et al. (1998) cloned the human homolog of Xenopus Gremlin. The human gremlin cDNA encodes a predicted 184-amino acid protein.
<b>Concentration</b>	1,0 mg/ml (after reconstitution)
<b>Format</b>	<b>Purification:</b>  Lyophilized with 100% acetonitrile <b>State:</b> Lyophilized powder <b>Reconstitution:</b> Restore with 0.1 ml deionized water

<b>References</b>	Hsu DR, et al. Molec. Cell 1998. 1: 673. Khokha MK, et al. Nature Genet. 2003. 34: 303. Topol LZ, et al. Cytogenet. Cell Genet. 2000. 89: 79. Zuniga A, et al. Nature 1999. 401: 598.
<b>Storage</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>Antibody type</b>	Ab/CP
<b>Targets</b>	Gremlin-1 / GREM1 antibody

GENTAUR