

# Recombinant Human GREM1

Cat. No. GREM1-28534TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to aa 25-124 of human Gremlin 1 with a proprietary tag; 36.63kDa inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	<p>This gene encodes a member of the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists contain cystine knots and typically form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which this gene belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein encoded by this gene is likely due to its direct binding to BMP proteins. As an antagonist of BMP, this gene may play a role in regulating organogenesis, body patterning, and tissue differentiation. In mouse, this protein has been shown to relay the sonic hedgehog (SHH) signal from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	Highly expressed in small intestine, fetal brain and colon. Weakly expressed in brain, ovary, prostate, pancreas and skeletal muscle. In brain found in the region localized

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	around the internal capsule in the large subcortical nuclei, including caudate, pu
<b>Biological activity</b>	This product is useful for Antibody Production and Protein Array
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione Note: Glutathione is reduced.
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	KKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPGEEVLESSQ EALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGGQCNS
<b>Sequence Similarities</b>	Belongs to the DAN family. Contains 1 CTCK (C-terminal cystine knot-like) domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GREM1</a> <a href="#">gremlin 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GREM1</a>
<b>Synonyms</b>	GREM1; gremlin 1; CKTSF1B1, cysteine knot superfamily 1, BMP antagonist 1 , gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis); gremlin-1; DAND2; DRM; gremlin;
<b>Gene ID</b>	<a href="#">26585</a>

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<b>mRNA Refseq</b>	NM_001191322
<b>Protein Refseq</b>	NP_001178251
<b>MIM</b>	603054
<b>Uniprot ID</b>	O60565
<b>Chromosome Location</b>	15q13.3
<b>Pathway</b>	BMP receptor signaling, organism-specific biosystem;
<b>Function</b>	cytokine activity; protein binding;

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