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Datasheet for ABIN4949105

GREM1 Protein (AA 25-184) (Fc Tag)

2 Images

1 Publication

Overview

| | |
|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | GREM1 |
| Protein Characteristics: | AA 25-184 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This GREM1 protein is labelled with Fc Tag. |
| Application: | Functional Studies (Func) |

Product Details

| | |
|------------------|--|
| Sequence: | AA 25-184 |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 44.2 kDa. The protein migrates as 48-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

Target Details

| | |
|---------|-------|
| Target: | GREM1 |
|---------|-------|

Target Details

Alternative Name: Gremlin ([GREM1 Products](#))

Background: Gremlin is also known as Cysteine knot superfamily 1, BMP antagonist 1 (CKTSF1B1), DAN domain family member 2 (DAND2), Down-regulated in Mos-transformed cells protein (DRM), Increased in high glucose protein 2 (IHG-2), Cell proliferation-inducing gene 2 protein (PIG2) or Gremlin-1 (GREM1), which is highly expressed in small intestine, fetal brain and colon. Gremlin / GREM-1 interacts with SLIT1 and SLIT2 in a glycosylation-dependent manner. Gremlin may play an important role during carcinogenesis and metanephric kidney organogenesis, as a BMP antagonist required for early limb outgrowth and patterning in maintaining the FGF4-SHH feedback loop. Gremlin down-regulates the BMP4 signaling in a dose-dependent manner and acts as inhibitor of monocyte chemotaxis.

Molecular Weight: 44.2 kDa

NCBI Accession: [NP_037504](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Maintenance of Protein Location](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

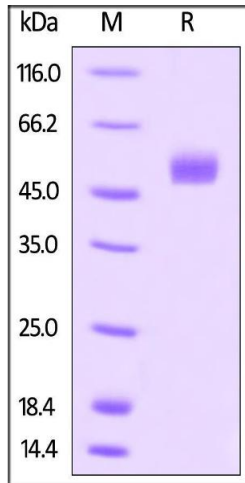
Buffer: 50 mM Tris, 150 mM NaCl, pH 7.5 with 1 mM EDTA

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

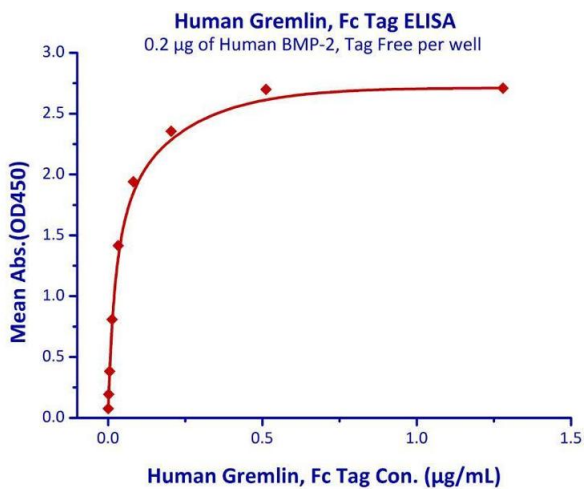
Publications

Product cited in: Du, Hirabayashi, Ahn, Kren, Montgomery, Wang, Tiruthani, Mirlekar, Michaud, Greene, Herrera, Xu, Sun, Chen, Ma, Ferrone, Pylayeva-Gupta, Yeh, Liu, Savoldo, Ferrone, Dotti: "Antitumor Responses in the Absence of Toxicity in Solid Tumors by Targeting B7-H3 via Chimeric Antigen Receptor T Cells." in: **Cancer cell**, Vol. 35, Issue 2, pp. 221-237.e8, (2019) ([PubMed](#)).



SDS-PAGE

Image 1. Human Gremlin / GREM1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 2. Immobilized Human BMP-2, Tag Free with a linear range of 0.0008-0.08 µg/mL.