

Product datasheet

Recombinant Human Gremlin 1 protein ab111462

1 Image

Description

Product name	Recombinant Human Gremlin 1 protein	
Purity	> 95 % SDS-PAGE. Silver staining	
Expression system	Escherichia coli	
Accession	O60565	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRG QGRGTAMPGEEV LESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTII NRFCYGQCN SFYIPRHIRKEEGSFQSCSFCKPKKFTTMMVTLNCPQLQP PTKKKRVTRV KQCRCISIDLD	
Predicted molecular weight	18 kDa	
Amino acids	25 to 184	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab111462** in the following tested applications.
 The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. Constituent: 0.3% Acetic acid
Reconstitution	Reconstitute in 50mM acetic acid or sterile water to a concentration of 0.1 mg/ml.

General Info

Function

Cytokine that 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. Down-regulates the BMP4 signaling in a dose-dependent manner. Acts as inhibitor of monocyte chemotaxis.

Tissue specificity

Highly expressed in small intestine, fetal brain and colon. Expression is restricted to intestinal subepithelial myofibroblasts (ISEMFs) at the crypt base. In subjects with HMPS1, by contrast, GREM1 is expressed, not only in basal ISEMFs, but also at very high levels in epithelial cells (predominantly colonocytes), with expression extending most of the way up the sides of the crypt. Weakly expressed in brain, ovary, prostate, pancreas and skeletal muscle. In brain found in the region localized around the internal capsule in the large subcortical nuclei, including caudate, putamen, substantia nigra, thalamus and subthalamus. Predominantly expressed in normal cells including neurons, astrocytes and fibroblasts.

Involvement in disease

Polyposis syndrome, mixed hereditary 1

Sequence similarities

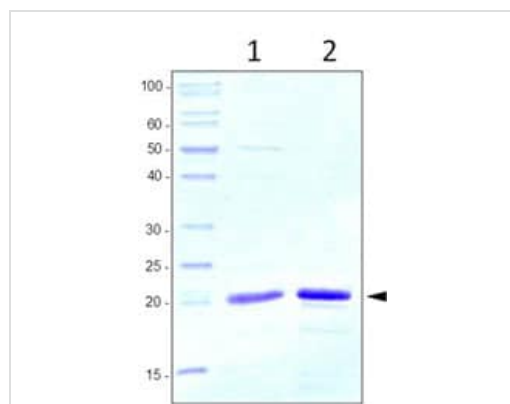
Belongs to the DAN family.

Contains 1 CTCK (C-terminal cystine knot-like) domain.

Cellular localization

Secreted.

Images



SDS-PAGE - Recombinant Human Gremlin 1 protein (ab111462)

SDS-PAGE analysis of recombinant Human Gremlin 1 (ab111462). Samples were loaded in 15% SDS-polyacrylamide gel and stained with Coomassie blue. Lane 1: unreduced Gremlin 1; Lane 2: reduced Gremlin 1.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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