Datasheet for ABIN7320653

KIT Ligand Protein (KITLG)

2 Images

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Overview

Quantity:	50 µg
Target:	KIT Ligand (KITLG)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Mouse SCF/c-Kit Ligand Protein (Active)
Sequence:	Lys26-Ala189
Characteristics:	Recombinant Mouse Stem Cell Factor is produced by our E.coli expression system and the target gene encoding Lys26-Ala189 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the dose-dependent stimulation of TF-1 cells. The ED50 for this effect is 4-12 ng/mll.

Target Details

Target:	KIT Ligand (KITLG)
Alternative Name:	SCF/c-Kit Ligand (KITLG Products)

Target Details

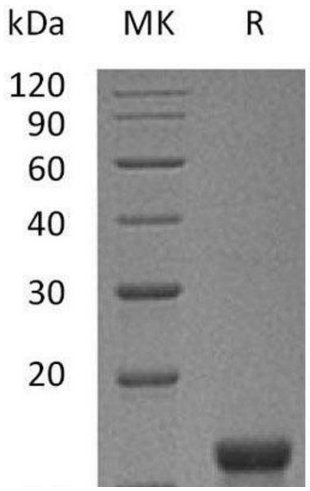
Background:	Background: Mouse stem cell factor (SCF), is the ligand for the receptor-type protein-tyrosine kinase KIT. It plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. It also promotes phosphorylation of PIK3R1, which is the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5. Synonym: FPH2, KIT ligand, Kitl, KITLG, KL-1, Mast cell growth factor, MGF, MGFSHEP7, SCF, Stem cell factor, SFc-Kit ligand, SLF, steel factor,Hematopoietic growth factor KL
Molecular Weight:	18.4 kDa
UniProt:	P20826
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.

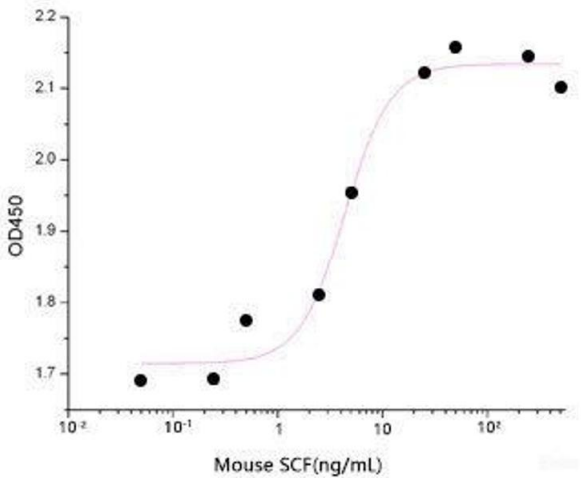


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Image 2.

