

Datasheet for ABIN6700201 KIT Ligand Protein (KITLG)

2 Images



Overview

Quantity:	100 µg
Target:	KIT Ligand (KITLG)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)
Product Details	
Purpose:	Rat Stem Cell Factor Recombinant Protein
Purification:	Stem Cell Factor purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically \leq 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to induce proliferation of TF-1 cells and is typically less than 10 ng/mL.

Target Details

Target:	KIT Ligand (KITLG)
Alternative Name:	Kitlg (KITLG Products)
Background:	Synonyms: c-Kit Ligand, Hematopoietic growth factor KL, KL, Steel Factor, Stem cell factor (SCF), Mast cell growth factor(MGF)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6700201 | 02/14/2025 | Copyright antibodies-online. All rights reserved.

	Background: Stem Cell Factor (SCF) is a cytokine made by fibroblasts and endothelial cells. SCF
	binds to the receptor known as c-Kit (CD117) and is thought to play a critical role in the
	maintenance or survival of hematopoietic stem cells. Human SCF shows no activity on murine
	cells, but murine and rat SCF are active on human cells. Recombinant rat SCF is a non-
	glycosylated protein, containing 165 amino acids, with a molecular weight of 18.4 kDa.
UniProt:	P21581
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway
Application Details	

Application Notes:	Other: User Optimized
	Application_Note: Stem Cell Factor Recombinant Protein has been tested by SDS-PAGE and
	biological activity and is suitable as a control for polyclonal or monoclonal anti-Stem Cell Factor
	in immunological assays.
Comment:	Suggested_Applications: Cellular Assay
	Other_Performance_Data:
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: 0.01M acetic acid Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

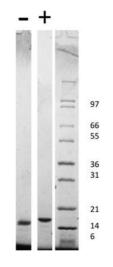
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN6700201 | 02/14/2025 | Copyright antibodies-online. All rights reserved.

```
Handling
```

Expiry Date:

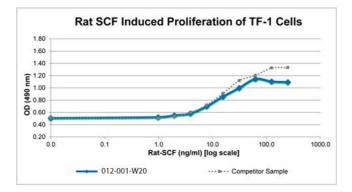
6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Rat Stem Cell Factor Recombinant Protein SDS-PAGE of Rat Stem Cell Factor Recombinant Protein. Lane 1: 1 μ g Rat SCF in non-reducing conditions . Lane 2: 1 μ g Rat SCF in reducing conditions (+). Lane 3: Molecular weight marker. Rat SCF has a predicted MW of 18.4 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Rat Stem Cell Factor Recombinant Protein Bioactivity of Rat Stem Cell Factor Recombinant Protein. Serial dilutions of Rat SCF, starting at 250 ng/mL, were added to TF-1 cells growing in GM-SCF free media. Cell proliferation was measure after 63 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Rat SCF is between 10-15 ng/mL. This value is comparable to the typical expected range of 20-40 ng/mL.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN6700201 | 02/14/2025 | Copyright antibodies-online. All rights reserved.