Product Datasheet

SCF Antibody

Catalog No: #21670

Package Size: #21670-1 50ul #21670-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

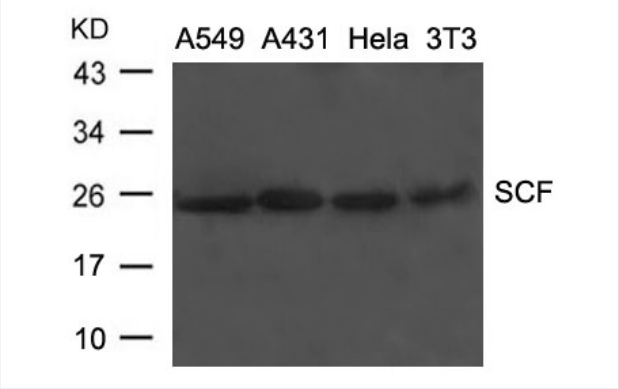
Product Name	SCF Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total SCF protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.265~269(E-K-E-R-E) derived from Human SCF.
Target Name	SCF
Other Names	SF; MGF; FPH2; KL-1; Kitl
Accession No.	Swiss-Prot: P21583NCBI Protein: NP_000890.1
Uniprot	P21583
GeneID	4254;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 25-38kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from A549, A431, Hela and 3T3 cells using SCF Antibody #21670.

Background

Ligand for the receptor-type protein-tyrosine kinase KIT. 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. Promotes phosphorylation of PIK3R1, 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. KITLG/SCF and KIT promote activation of PLCG1, leading to the production of the cellular signaling molecules diacylglycerol and inositol-1,4,5-trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.

Lu H.S., Clogston C.L., Wypych J. Arch. Biochem. Biophys. 298:150-158(1992)

Note: This product is for in vitro research use only