Stem Cell Factor (SCF) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Stem Cell Factor (SCF), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Stem Cell Factor (SCF)
Product Gene Name	anti-SCF antibody
Product Synonym Names	KITLG; MGF; SF; KL1; Kitl; FPH2; Kit-Ligand; Steel Factor; Mast Cell Growth Factor; Steel factor; Familial Progressive Hyperpigmentation 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: SCF (MBS2005092) Biotin Conjugated Antibody: SCF (MBS2091587)
Matching Pairs	Biotin Conjugated Antibody: SCF (MBS2091587) Immunogen: SCF (MBS2009010)
Molecular Weight	26,667 Da
OMIM	M59964 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	Biotin
Cross Reactivity	Rat
Immunogen	SCF (Glu27~Glu259)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-SCF antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-SCF antibody	MBS2091587 is an antibody targeting SCF. Also known as Biotin-Linked Polyclonal Antibody to Stem Cell Factor (SCF). Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SCF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCF. It may not necessarily be applicable to this product.

NCBI GI #	1246100
NCBI GeneID	4254
NCBI Accession #	AAB35922.1
UniProt Secondary Accession #	Q16487; Q68DZ2; Q7M4N8; Q9UQK7; A0AV09; A8K2Q4; B7ZLM4

UniProt Related Accession #	P21583
NCBI Official Full Name	stem cell factor, partial
NCBI Official Synonym Full Names	KIT ligand
NCBI Official Symbol	KITLG
NCBI Official Synonym Symbols	SF; MGF; SCF; SLF; DCUA; FPH2; FPHH; KL-1; Kitl; SHEP7; DFNA69
UniProt Protein Name	Kit ligand
UniProt Synonym Protein Names	Mast cell growth factor; MGF
Protein Family	Kit ligand
UniProt Gene Name	KITLG
UniProt Synonym Gene Names	MGF; SCF; MGF; SCF; sKITLG
NCBI Protein Information	kit ligand
NCBI Summary for SCF	This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SCF	SCF: 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. Homodimer, non-covalently linked (Probable). Heterotetramer with KIT, binding two KIT molecules; thereby mediates KIT dimerization and subsequent activation by autophosphorylation. Belongs to the SCF family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12q21.32 Cellular Component: cytoplasm; cytoskeleton; extracellular region; extracellular space; filopodium; integral component of membrane; lamellipodium; plasma membrane Molecular Function: cytokine activity; growth factor activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding; Ras guanyl-nucleotide exchange factor activity; stem cell factor receptor binding Biological Process: cell adhesion; cell proliferation; embryonic hemopoiesis; germ cell programmed cell death; male gonad development; MAPK cascade; negative regulation of mast cell apoptosis; neural crest cell migration; ovarian follicle development; phosphatidylinositol phosphorylation; phosphoinositide-mediated signaling; positive regulation of DNA replication; positive regulation of GTPase activity; positive regulation of leukocyte migration; positive regulation of MAP kinase activity; positive regulation of melanocyte differentiation; positive regulation of myeloid leukocyte differentiation; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of Ras protein signal transduction; regulation of phosphatidylinositol 3-kinase signaling; signal transduction Disease: Deafness, Autosomal Dominant 69; Hyperpigmentation, Familial Progressive, 2; Skin/hair/eye Pigmentation, Variation In, 7
Research Articles on SCF	**1.** We did not find any KITLG mutation in two affected individuals with familial progressive hyperpigmentation and hypopigmentation.

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