

Anti-SCF Reference Antibody (OpSCF)

Catalog # APR11353

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P21583
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4PE-opti
Calculated MW	30899

Additional Information

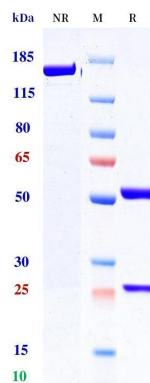
Target/Specificity	SCF / KITLG
Expression system	CHO

Protein Information

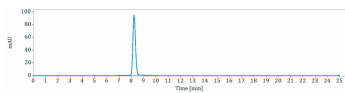
Name	KITLG (HGNC:6343)
Synonyms	MGF, SCF
Function	Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. 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.
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Soluble KIT ligand]: Secreted.

Images

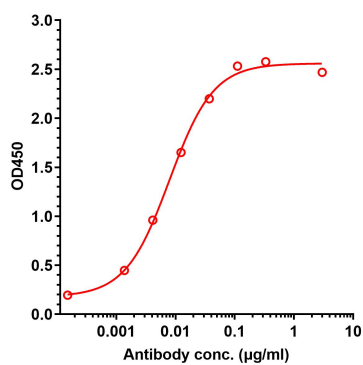
Anti-SCF Reference Antibody (OpSCF) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater



than 95%.



The purity of Anti-SCF Reference Antibody (OpSCF) is 98.08%, determined by SEC-HPLC.



Immobilized PHD638 Human SCF/KITLG, His Tag at 5 µg/mL can bind OpSCF, EC50= 0.007900 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.