

Anti-KITLG / SCF Antibody

Goat Anti Human Polyclonal Antibody

Catalog # ALS17781

Product Information

Application	WB, IHC-P, E, Neut
Primary Accession	P21583
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	30899

Additional Information

Gene ID	4254
Alias Symbol	KITLG
Other Names	KITLG, C-Kit ligand, KIT ligand, Kitl, KL-1, SHEP7, SF, Steel factor, Stem cell factor, SCF, FPH2, Mast cell growth factor, MGF
Target/Specificity	Human SCF
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-KITLG / SCF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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