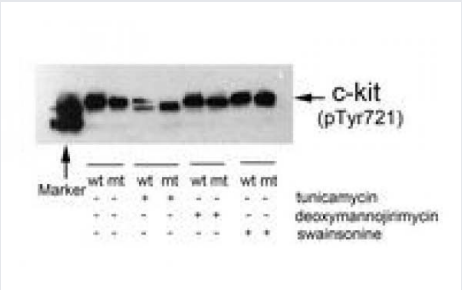
c-KIT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	c-Kit, Polyclonal Antibody
Full Product Name	c-Kit antibody
Product Gene Name	anti-c-Kit antibody
Product Synonym Names	Rabbit polyclonal c-Kit antibody; Polyclonal c-Kit antibody; Anti-c-Kit antibody; Phospho Tyr721 antibody; CD117 antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl,0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified by immunoaffinity chromatography.
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at-20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	46,658 Da
OMIM	164920
Immunogen	c-Kit antibody was raised in Rabbit using the peptide sequence around phosphorylation site of tyrosine 721 (N-E-Y(p)-M-D) derived from Human c-Kit as the immunogen.
Cross-Reactivity	Human, Mouse, Rat
Product Categories/Family for anti-c-Kit antibody	Immunology
Applications Tested/Suitable for anti-c-Kit antibody	Western Blot (WB)
Application Notes for anti-c-Kit antibody	WB: 1:500-1:1000
Related Product Information for anti-c-Kit antibody	Human CD117 (c-kit) is a transmembrane protein with receptor tyrosine kinase capacity and serves as the receptor for steel factor (SLF). CD117 is expressed on almost all hematopoietic progenitor cells and receptor/ligand interaction is crucial for development of hematopoietic stem cells.
Other Notes	Small volumes of anti-c-Kit 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.
Searchable Terms for c-Kit purchase	MBS5309588 is an antibody targeting c-Kit. Also known as c-Kit antibody. Host: Rabbit.



Testing Data of anti-c-Kit antibody
Western Blot analysis of extracts from Hela cells untreated or treated with IFN-alpha using c-Kit (Phospho-Tyr721) antibody

ADDITIONAL DETAILS

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

NCBI GI #	459359
NCBI GeneID	3815
NCBI Accession #	AAB29529.1
UniProt Secondary Accession #	Q6IQ28; Q99662; Q9UM99; B5A956; D5LXN2; D5M931; F5H8F8
UniProt Related Accession #	P10721
NCBI Official Full Name	c-Kit, partial
NCBI Official Synonym Full Names	KIT proto-oncogene receptor tyrosine kinase
NCBI Official Symbol	KIT
NCBI Official Synonym Symbols	PBT; SCFR; C-Kit; CD117
UniProt Protein Name	Mast/stem cell growth factor receptor Kit
UniProt Synonym Protein Names	Piebald trait protein; PBT; Proto-oncogene c-Kit; Tyrosine-protein kinase Kit; p145 c-kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; CD_antigen: CD117
Protein Family	Kit ligand
UniProt Gene Name	KIT
UniProt Synonym Gene Names	SCFR; SCFR; PBT
NCBI Protein Information	mast/stem cell growth factor receptor Kit
NCBI Summary for c-Kit	This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for c-Kit	Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine KITLG/SCF and 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. In response to KITLG/SCF binding, KIT can activate several signaling pathways. Phosphorylates PIK3R1, PLCG1, SH2B2/APS and CBL. Activates the AKT1 signaling pathway by phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Activated KIT also transmits signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. Promotes activation of STAT family members STAT1, STAT3, STAT5A and STAT5B. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KIT signaling is modulated by protein phosphatases, and by rapid internalization and degradation of the receptor. Activated KIT promotes phosphorylation of the protein phosphatases PTPN6/SHP-1 and PTPRU, and of the transcription factors STAT1, STAT3, STAT5A and STAT5B. Promotes phosphorylation of PIK3R1, CBL, CRK (isoform Crk-II), LYN, MAPK1/ERK2 and/or MAPK3/ERK1, PLCG1, SRC and SHC1.

Research Articles on c-Kit	**1.** PKC-delta expression is associated with KIT expression and the prognosis of patients with adenoid cystic carcinomas (AdCCs), suggesting that PKC-delta may be a potential therapeutic target for AdCCs.
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