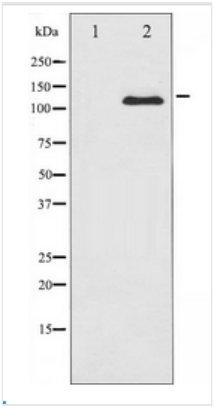
c-KIT Antibody

PRODUCT OVERVIEW

Product Name	c-Kit, Antibody
Full Product Name	c-Kit Antibody
Product Gene Name	anti-c-Kit antibody
Product Synonym Names	CD117; EC 2.7.10.1; Mast/stem cell growth factor receptor precursor; SCFR; SL; c-kit; kinase Kit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	c-Kit Antibody detects endogenous levels of total c-Kit
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	120; 145kDa
OMIM	164920
3D Structure	ModBase 3D Structure for P10721
Immunogen	A synthesized peptide derived from human c-Kit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-c-Kit antibody	Western Blot (WB)
Application Notes for anti-c-Kit antibody	WB: 1:500-1:2000
Related Product Information for anti-c-Kit antibody	KIT 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. KIT is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in KIT are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism.
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	MBS8512223 is an antibody targeting c-Kit. Also known as c-Kit Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-c-Kit antibody
Western blot analysis of c-Kit expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4557695
NCBI GeneID	3815
NCBI Accession #	NP_000213.1
UniProt Primary Accession #	P10721
UniProt Secondary Accession #	Q6IQ28; Q99662; Q9UM99; B5A956; D5LXN2; D5M931; F5H8F8
UniProt Related Accession #	P10721
GenBank Nucleotide #	NM_000222.2
NCBI Official Full Name	mast/stem cell growth factor receptor Kit isoform 1
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.** CD117 can be a useful marker to help differentiate plasmablastic plasma cell myeloma from plasmablastic lymphoma
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