

Recombinant Human KIT v-kit Hardy-Zuckerman 4 Feline Sarcoma Viral Oncogene Homolog, GST-tagged

Cat. No. KIT-4857H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KIT (544-end) was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	544-end a.a.
Description	KIT is a proto-oncogene and a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). KIT was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. KIT together with its ligand regulates growth and activation of a variety of hemopoietic and non-hemopoietic cells. Mutations in KIT are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Recently, deregulation of the KIT receptor TK by the prevalent activation loop mutation D816V has served as a focal point in therapeutic strategies aimed curbing neoplastic mast cell growth.
Applications	Kinase Assay; Western Blot
Molecular Weight	73 kDa
Expression System	Sf9 insect cells using baculovirus.

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Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM EDTOA, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	544-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Acute myeloid leukemia; Acute myeloid leukemia; C-MYB transcription factor network; Cytokine-cytokine receptor interaction; Endocytosis; Hematopoietic cell lineage; Kit Receptor Signaling Pathway; Melanogenesis; Pathways in cancer; Signaling events mediated by Stem cell factor receptor (c-Kit)

GENE INFORMATION

Gene Name	KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Homo sapiens]
Official Symbol	KIT
Synonyms	KIT; PBT; SCFR; C-Kit; CD117; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; Proto-oncogene c-Kit; Tyrosine-protein kinase Kit; EC 2.7.10.1; piebald trait; mast/stem cell growth factor receptor; proto-oncogene tyrosine-protein kinase Kit; soluble KIT variant 1; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein; CD117 antigen; EC 2.7.10

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Gene ID	3815
mRNA Refseq	NM_000222
Protein Refseq	NP_000213
MIM	609132
UniProt ID	P10721
Chromosome Location	4q11-q12
Function	ATP binding; cytokine binding; nucleotide binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; stem cell factor receptor activity; transmembrane receptor protein tyrosine kinase activity
PDB rendering based on 1pkg.	