

c-Kit Recombinant Protein | KIT recombinant protein

c-Kit Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA257479

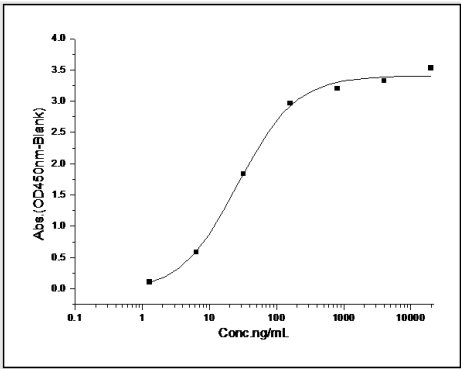
HOST
HEK293 Cells

PRODUCT SYNONYMS

c-Kit; c-Kit Protein; Mouse; Recombinant (hFc Tag); Mouse c-kit/CD117 Protein (Fc Tag); v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; Bs Protein; c-KIT Protein; CD117 Protein; Fdc Protein; Gsfsc01 Protein; Gsfsc05 Protein; Gsfsc03 Protein; SCO1 Protein; SCO5 Protein; SOW3 Protein; Ssm Protein; Tr-kit Protein; W Protein; KIT recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	740aa
Sequence	Met1-Thr523
Species	Mouse
Tag	hFc
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser25
Protein Construction	JA DNA sequence encoding the mouse KIT isoform 1 (NP_001116205.1) extracellular domain (Met 1-Thr 523) was fused with the Fc region of human IgG1 at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse KITL at 2ug/ml (100ul/well) can bind mouse KIT/CD117 with a linear range of 1.28-32ng/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack



Application Data

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ADDITIONAL INFORMATION

Related Product Information for KIT recombinant protein	C-Kit is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). c-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. It belongs to the protein kinase superfamily, tyr protein kinase family, and CSF-1/PDGF receptor subfamily. C-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. C-Kit has tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase. Antibodies to c-Kit are widely used in immunohistochemistry to help distinguish particular types of tumor in histological tissue sections. It is used primarily in the identification of GISTs. In GISTs, c-Kit staining is typically cytoplasmic, with stronger accentuation along the cell membranes. C-Kit antibodies can also be used in the identification of mast cell tumors and in distinguishing seminomas from embryonal carcinomas. Mutations in the c-Kit gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Defects in KIT are a cause of acute myelogenous leukemia (AML). AML is a malignant disease in which hematopoietic precursors are arrested in an early stage of development. Note=Somatic mutations that lead to constitutive activation of KIT are detected in AML patients.
Product Categories/Family for KIT recombinant protein	Cancer Drug Targets Cardiac Stem Cell Markers Receptor Tyrosine Kinases (RTKs)
References	Andre C, et al. (1997) Sequence analysis of two genomic regions containing the KIT and the FMS receptor tyrosine kinase genes. Genomics. 39(2):216-26. Yarden Y, et al. (1987) Human proto-oncogene c-kit: a new cell surface receptor tyrosine kinase for an unidentified ligand. EMBO J. 6(11):3341-51. Leong KG, et al. (2008) Generation of a prostate from a single adult stem cell. Nature. 456(7223): 804-8. Edling CE, et al. (2007) c-Kit--a hematopoietic cell essential receptor tyrosine kinase. Int J Biochem Cell Biol. 39(11):1995-8. McIntyre A, et al. (2005) Amplification and overexpression of the KIT gene is associated with progression in the seminoma subtype of testicular germ cell tumors of adolescents and adults. Cancer Res. 65(18):8085-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170650721
NCBI GeneID	16590
NCBI Accession #	NP_001116205.1
NCBI GenBank Nucleotide #	NM_001122733.1
UniProt Accession #	P05532; Q61415; Q61416; Q61417; Q6LEE9; Q6QJB7; Q6QJB8; Q7TS86; Q8C8K9
Molecular Weight	22,814 Da
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	W; Bs; Fdc; Ssm; SCO1; SCO5; SOW3; CD117; c-KIT; Tr-kit; Gsfsc01; Gsfsc05; Gsfscow3
NCBI Protein Information	mast/stem cell growth factor receptor Kit
UniProt Protein Name	Mast/stem cell growth factor receptor Kit
UniProt Gene Name	Kit
UniProt Synonym Gene Names	Sl; SCFR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kit-recombinant-protein-hek293-cells/257479>