

Recombinant Human c-Kit/CD117 Kinase

Catalog No.: RP03382LQ

Sequence Information

Species	Gene ID
Human	3815
Swiss Prot	Tags
P10721	N-Twin strep

Synonyms

KIT; SCFR; CD117; cKIT; p145 c-kit; Mast/stem cell growth factor receptor Kit

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

Calculated MW Observed MW

51.9 kDa 40-50 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Background

Tyrosine-protein kinase KIT (cKIT) also known as CD117 or mast/stem cell growth factor receptor (SCFR) is encoded by the proto-oncogene c-KIT gene. KIT is a receptor tyrosine kinase type III, which binds to stem cell factor, also known as "steel factor" or "c-kit ligand". Like other members of the receptor tyrosine kinase III family, KIT consists of an extracellular domain, a transmembrane domain, a juxtamembrane domain, and an intracellular tyrosine kinase domain. The extracellular domain is composed of five immunoglobulin-like domains, and the ligand stem cell factor binds via the second and third immunoglobulin domains. When KIT binds to stem cell factor (SCF) it forms a dimer that activates its intrinsic tyrosine kinase activity, that in turn phosphorylates and activates signal transduction molecules that propagate the signal in the cell.

Basic Information

Description

Recombinant Human c-Kit/CD117 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Thr544-Val976) of Human KIT (Accession #P10721) fused with a N-Twin strep tag.

Activity

The activity of KIT is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

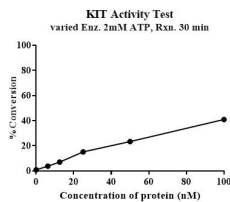
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

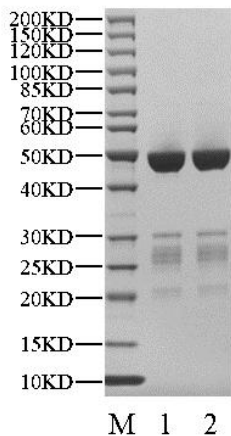
Contact

	400-999-6126
	cn.market@abclonal.com.cn
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Validation Data



The activity of KIT is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.



Recombinant Human c-Kit/CD117 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.