

Anti-C-Kit Antibody (3B930)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	3B930
Purification:	Protein A

Applications

Verified Activity:	<p>1. Anti-KIT rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"> -Lane A: MOLT4 Whole Cell Lysate. -Lane B: Jurkat Whole Cell Lysate. -Lane C: K562 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:110 kDa. -Observed band size:110 kDa(We are unsure as to the identity of these extra bands.)
	<p>2. Mouse KIT was immunoprecipitated using:</p> <ul style="list-style-type: none"> -Lane A:0.5 mg K562 Whole Cell Lysate. -1 µL anti-Mouse KIT rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose. -Primary antibody: -Anti-Mouse KIT rabbit monoclonal antibody, at 1:500 dilution. -Secondary antibody: -Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. -Developed using the odyssey technique. -Performed under reducing conditions. -Predicted band size: 110 kDa. -Observed band size: 110 kDa

Application: ELISA,IP,WB

Recommended WB: 1:500-1:1000; ELISA: 1:25000-1:50000; IP: 0.2-1 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse KIT / c-KIT / CD117 Protein (TMPY-01802)
Antigen Species:	Mouse
Synonyms:	PBT;v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog;SCFR;C-Kit;CD117
Biology Area:	Cancer Drug Targets, Cardiac Stem Cell Markers, Receptor Tyrosine Kinases (RTKs)

Research Background

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 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 diagnosis 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 diagnosis 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.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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