

## Anti-C-Kit Antibody (3F840)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3F840
Purification:	Protein A

## Applications

Verified Activity:	1. Immunochemical staining of human c-KIT in human skin with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
	2. Immunochemical staining of human c-KIT in human melanoma with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
	3. Immunochemical staining of human c-KIT in human breast cancer with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
Application:	ELISA,IHC-P
Recommended	ELISA: 1:5000-1:10000; IHC-P: 1:100-1:500

## 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: Human c-Kit / CD117 protein (TMPY-01935)
Antigen Species:	Human
Synonyms:	C-Kit;CD117;SCFR;PBT;v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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