



Mouse Anti-Human CD117/c-kit monoclonal antibody, clone JID637 (CABT-L2804)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human CD117/c-kit
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID637
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Gastrointestinal Stromal Tumor, Seminoma
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer

Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	CD117 or Proto-oncogene c-Kit (c-Kit) is a member of the Tyrosine Kinase Receptor (TKR) family which is an important cell surface marker found on hematopoietic stem cells, melanocytes, mast cells, Cajal cells, germ cells, basal cells of skin, and mammary ductal epithelia. It is considered an important marker in the diagnosis and classification of Gastrointestinal Stromal Tumors (GISTs), mast cell diseases, Acute Myeloid Leukemia (AML), Small Cell Lung Carcinoma (SCLC), and Ewing's sarcoma.
Keywords	KIT;v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog;PBT;SCFR;C-Kit;CD117;mast/stem cell growth factor receptor Kit;p145 c-kit;proto-oncogene c-Kit;piebald trait protein

GENE INFORMATION

Gene Name	KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Homo sapiens (human)]
Official Symbol	KIT
Synonyms	KIT; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; PBT; SCFR; C-Kit; CD117; mast/stem cell growth factor receptor Kit; p145 c-kit; proto-oncogene c-Kit; piebald trait protein; soluble KIT variant 1; tyrosine-protein kinase Kit; proto-oncogene tyrosine-protein kinase Kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein;
Entrez Gene ID	3815
Protein Refseq	NP_000213
UniProt ID	A0A024RDA0
Chromosome Location	4q12
Pathway	Acute myeloid leukemia; Adaptive Immune System; C-MYB transcription factor network; Cardiac Progenitor Differentiation; Central carbon metabolism in cancer; Constitutive PI3K/AKT Signaling in Cancer; Cytokine-cytokine receptor interaction; DAP12 interactions;
Function	ATP binding; cytokine binding; metal ion binding; protease binding; protein binding; protein

homodimerization activity; protein tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; stem cell factor receptor activity; transmembrane receptor protein tyrosine kinase activity;
