

Datasheet for ABIN968996

anti-KIT antibody[Go to Product page](#)**2** Images**3** Publications

Overview

Quantity:	100 µL
Target:	KIT
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KIT antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	C-Kit Antibody
Immunogen:	Purified recombinant fragment of C-kit expressed in E. Coli.
Clone:	8D7
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	KIT
Alternative Name:	C-Kit (KIT Products)
Background:	C-kit (CD117, 145 kDa) functions as a tyrosine kinase receptor which becomes activated upon binding of its ligand SCF (stem-cell factor), the C-kit gene encodes the human homolog of the

Target Details

proto-oncogene c-kit. which was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. KIT is a type 3 transmembrane receptor for MGF (mast cell growth factor). Mutations in KIT are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism.

Molecular Weight: 145 kDa

Gene ID: 3815

UniProt: [P10721](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Sensory Perception of Sound](#), [Stem Cell Maintenance](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

Application Details

Application Notes: ELISA: 1/10000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

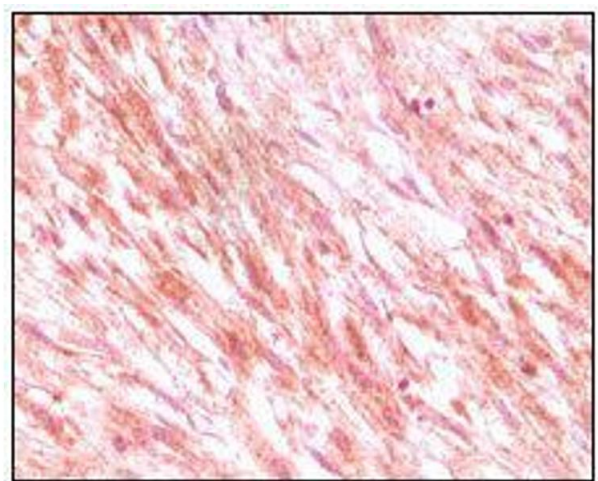
Publications

Product cited in: Mojica, Saxena, Starostik, Cheney: "CD117+ small cell lung cancer lacks the asp 816-->val point mutation in exon 17." in: **Histopathology**, Vol. 47, Issue 5, pp. 517-22, (2005) ([PubMed](#)).

Tong, Liu, Zhang, Xiong, Liu, Zhang: "Expression of c-kit messenger ribonucleic acid and c-kit protein in sigmoid colon of patients with slow transit constipation." in: **International journal of colorectal disease**, Vol. 20, Issue 4, pp. 363-7, (2005) ([PubMed](#)).

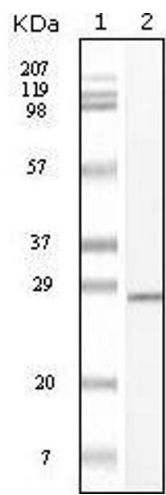
Nakai, Nonomura, Oka, Shiba, Arai, Nakayama, Inoue, Nishimura, Aozasa, Mizutani, Miki, Okuyama: "KIT (c-kit oncogene product) pathway is constitutively activated in human testicular germ cell tumors." in: **Biochemical and biophysical research communications**, Vol. 337, Issue 1, pp. 289-96, (2005) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded malignant mesenchymoma tissues, showing cytoplasmic localization using C-kit mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using C-kit mouse mAb against truncated C-kit recombinant protein.