

AbboMax, Inc

Innovation at Work

Rabbit anti-CD117/c-Kit(NT) Polyclonal Antibody

Synonym: Kit Protein, c-Kit, CD117 antigen; SCFR, PBT

Order Information

Description: Rabbit anti -c-Kit (NT)
Catalogue#: 601-280
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu:

ANTIGEN PREPARATION

A synthetic peptide derived from N-terminus of human Kit protein. This sequence is identical among human and dog origins.

BACKGROUND

The c-Kit proto-oncogene encodes a 145 kDa transmembrane receptor (CD117) with tyrosine kinase activity that is structurally related to platelet-derived growth factor. C-Kit/CD117 antigen is expressed on almost all hematopoietic stem and progenitor cells. c-Kit regulates a variety of biological responses including cell proliferation, apoptosis, chemotaxis and adhesion. Ligand binding to the extracellular domain leads to autophosphorylation on several tyrosine residues within the cytoplasmic domain and activation. Mutations in c-Kit have been found to be important for tumor growth and progression in a variety of cancers including mast cell diseases, gastrointestinal stromal tumor, acute myeloid leukemia, Ewing sarcoma and lung cancer. C-kit plays an important role in hematopoiesis, melanogenesis, and gametogenesis.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes human CD117/c-Kit protein.
The other species were not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

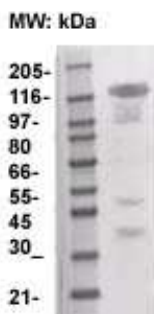
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	2-5 $\mu\text{g/ml}$
Flow cytometry	Not tested

MOLECULAR WEIGHT:	~145 kDa
POSITIVE CONTROL:	Jurkat cell.
CELLULAR LOCATION:	Membrane/Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from Jurkat cell was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti-CD117/c-Kit (NT)(Cat#601-280) antibody at 1:500. An immunoreactive band around ~145 kDa was observed.

REFERENCES

Li J et al. Expression of c-Kit receptor tyrosine kinase and effect on beta-cell development in the human fetal pancreas. *Am J Physiol Endocrinol Metab* 293:E475-83 (2007).

FOR RESEARCH USE ONLY.

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