Datasheet for ABIN7159029

anti-KIT antibody (AA 73-195)

1 Image

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Overview

Quantity:	100 µg
Target:	KIT
Binding Specificity:	AA 73-195
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KIT antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Mast/stem cell growth factor receptor Kit protein (73-195AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	KIT
Alternative Name:	KIT (KIT Products)
Background:	Background: Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine KITLG/SCF and plays an essential role in the regulation of cell survival and proliferation,

Target Details

	hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. In response to KITLG/SCF binding, KIT can activate several signaling pathways. Phosphorylates PIK3R1, PLCG1, SH2B2/APS and CBL. Activates the AKT1 signaling pathway by phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Activated KIT also transmits signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. Promotes activation of STAT family members STAT1, STAT3, STAT5A and STAT5B. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KIT signaling is modulated by protein phosphatases, and by rapid internalization and degradation of the receptor. Activated KIT promotes phosphorylation of the protein phosphatases PTPN6/SHP-1 and PTPRU, and of the transcription factors STAT1, STAT3, STAT5A and STAT5B. Promotes phosphorylation of PIK3R1, CBL, CRK (isoform Crk-II), LYN, MAPK1/ERK2 and/or MAPK3/ERK1, PLCG1, SRC and SHC1. Aliases: C Kit antibody, c-Kit antibody, c-Kit Ligand antibody, CD117 antibody, Kit antibody, Kit Ligand antibody, KIT oncogene antibody, KIT proto oncogene receptor tyrosine kinase antibody, KIT_HUMAN antibody, Mast cell growth factor receptor antibody, Mast/stem cell growth factor receptor Kit antibody, MGF antibody, p145 c-kit antibody, PBT antibody, Piebald trait protein antibody, Proto oncogene c Kit antibody, Proto oncogene tyrosine protein kinase Kit antibody, Proto-oncogene c-Kit antibody, SCF Receptor antibody, SCFR antibody, soluble KIT variant 1 antibody, Steel Factor Receptor antibody, Stem cell factor receptor antibody, tyrosine protein kinase Kit antibody, Tyrosine-protein kinase Kit antibody, v kit Hardy Zuckerman 4 feline sarcoma viral oncogene homolog antibody, v kit Hardy Zuckerman 4 feline sarcoma viral oncogene like protein antibody, v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog antibody
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

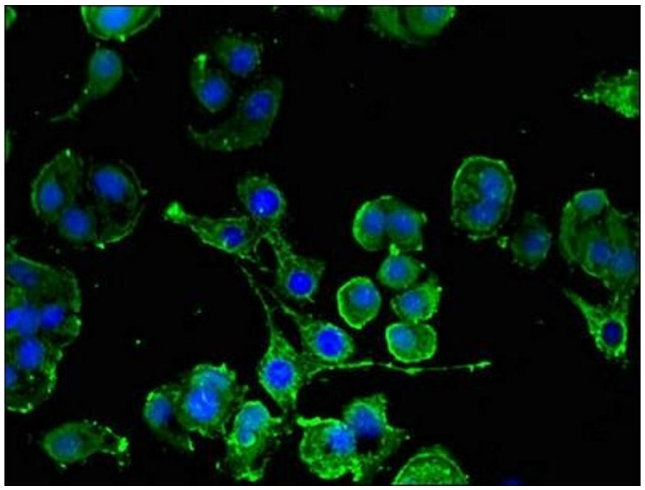
Application Details

Application Notes:	Recommended dilution: IF:1:50-1:200,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of MCF-7 cells using ABIN7159029 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)