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anti-KIT antibody (AA 350-440)





Publications



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Quantity:	100 μL
Target:	KIT
Binding Specificity:	AA 350-440
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KIT antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human c-Kit	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Predicted Reactivity:	Cow,Sheep,Pig,Horse	
Purification:	Purified by Protein A.	

Target Details

	Target:	KIT		
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Target Details

Alternative Name:	c-Kit (KIT Products)
Background:	Synonyms: PBT, SCFR, C-Kit, CD117, Mast/stem cell growth factor receptor Kit, Piebald trait
	protein, Proto-oncogene c-Kit, Tyrosine-protein kinase Kit, p145 c-kit, v-kit Hardy-Zuckerman 4
	feline sarcoma viral oncogene homolog, KIT
	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,
	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.
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 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Application Details

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

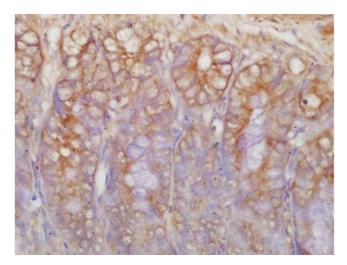
Publications

Product cited in:

Lin, Zhang, Li, Zou, Chen, Xue, Zhao: "Effect of electroacupuncture on gastric interstitial cells of Cajal in a rat model of diabetic gastroparesis." in: **Experimental and therapeutic medicine**, Vol. 11, Issue 6, pp. 2489-2494, (2016) (PubMed).

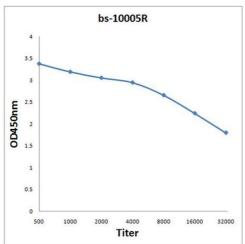
Kennedy, Hakimjavadi, Greene, Mooney, Fitzpatrick, Collins, Loscher, Guha, Morrow, Redmond, Cahill: "Embryonic rat vascular smooth muscle cells revisited - a model for neonatal, neointimal SMC or differentiated vascular stem cells?" in: **Vascular cell**, Vol. 6, Issue 1, pp. 6, (2014) (PubMed).

Chen, Chen, Lin, Hu, Liao: "Resveratrol inhibits alpha-melanocyte-stimulating hormone signaling, viability, and invasiveness in melanoma cells." in: **Evidence-based complementary and alternative medicine: eCAM**, Vol. 2013, pp. 632121, (2013) (PubMed).



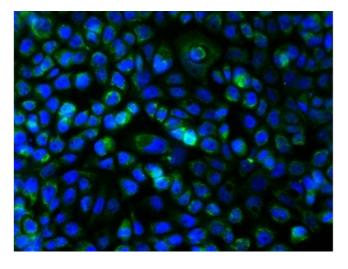
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded rat intestine labeled with Rabbit Anti-c-Kit Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



ELISA

Image 2. Antigen: 2 μ g/100 μ L Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Rabbit Anti-Goat IgG at 1: 5000; TMB staining Read the data in Microplate Reader by 450nm.



Immunofluorescence (Cultured Cells)

Image 3. Image provided by One World Lab validation program. A431 cells probed with Rabbit Anti-c-Kit Polyclonal Antibody at 1:50 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H+L) Alexa Fluor 488 Conjugated secondary antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN1387260.