Datasheet for ABIN1881483

anti-KIT antibody (pTyr553)

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Overview

Quantity:	400 µL
Target:	KIT
Binding Specificity:	pTyr553
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KIT antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This KIT Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y553 of human KIT.
Clone:	RB40039
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Pig
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	KIT
Alternative Name:	KIT (KIT Products)

Target Details

Background:	This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	109865
NCBI Accession:	NP_000213, NP_001087241
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:	DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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
Expiry Date:	6 months

Publications

Product cited in:	Molderings, Meis, Kolck, Homann, Frieling: "Comparative analysis of mutation of tyrosine kinase kit in mast cells from patients with systemic mast cell activation syndrome and healthy subjects." in: **Immunogenetics**, Vol. 62, Issue 11-12, pp. 721-7, (2010) (PubMed).

Publications

Cheng, Zhou, Wu, Boriboun, Thorne, Liu, Xiang, Zeng, Tanaka, Tang, Kishore, Tomasson, Miller, Losordo, Qin: "CXCR4-mediated bone marrow progenitor cell maintenance and mobilization are modulated by c-kit activity." in: **Circulation research**, Vol. 107, Issue 9, pp. 1083-93, (2010) (PubMed).

Chi, Chen, Zhang, Guo, Wongvipat, Shamu, Fletcher, Dewell, Maki, Zheng, Antonescu, Allis, Sawyers: "ETV1 is a lineage survival factor that cooperates with KIT in gastrointestinal stromal tumours." in: **Nature**, Vol. 467, Issue 7317, pp. 849-53, (2010) (PubMed).

Rossi, Gasparotto, Toffolatti, Pastrello, Gallina, Marzotto, Sartor, Barbareschi, Cantaloni, Messerini, Bearzi, Arrigoni, Mazzoleni, Fletcher, Casali, Talamini, Maestro, Maestra, Dei Tos: " Molecular and clinicopathologic characterization of gastrointestinal stromal tumors (GISTs) of small size." in: **The American journal of surgical pathology**, Vol. 34, Issue 10, pp. 1480-91, (2010) (PubMed).

Chen, Zong, Zhao, Shi: "Efficacy evaluation of imatinib treatment in patients with gastrointestinal stromal tumors: a meta-analysis." in: **World journal of gastroenterology : WJG**, Vol. 16, Issue 33, pp. 4227-32, (2010) (PubMed).

Images

Dot Blot

Image 1. Dot blot analysis of KIT Antibody (Phospho) Phospho-specific Pab (ABIN1881483 and ABIN2850467) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.