

Immunotag™ Phospho-KIT (Tyr703) Antibody

| Antibody Specification | |
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| Catalog No. | ITA0924 |
| Product Description | Immunotag™ Phospho-KIT (Tyr703) Antibody |
| Size | 100 µg, 200 µg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | Phospho-KIT (Tyr703) |
| Clonality | Polyclonal |
| Storage/Stability | -20°C/1 year |
| Application | WB,IHC,IF/ICC,ELISA |
| Recommended Dilution | WB 1:500-1:2000 IHC 1:50-1:200 IF 1:200 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat |
| Host Species | Rabbit |
| Immunogen | A synthesized peptide derived from human KIT around the phosphorylation site of Tyrosine 703 |
| Specificity | Phospho-KIT (Tyr703) Antibody detects endogenous levels of KIT only when phosphorylated at Tyrosine 703 |
| Purification | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Form | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt |
| Gene Name | KIT |
| Accession No. | P10721 |

Antibody Specification

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| Alternate Names | C Kit; c-Kit; c-Kit Ligand; CD117; Kit; Kit Ligand; KIT oncogene; KIT proto oncogene receptor tyrosine kinase; KIT_HUMAN; Mast cell growth factor receptor; Mast/stem cell growth factor receptor Kit; MGF; p145 c-kit; PBT; Piebald trait protein; Proto oncogene c Kit; Proto oncogene tyrosine protein kinase Kit; Proto-oncogene c-Kit; SCF Receptor; SCFR; soluble KIT variant 1; Steel Factor Receptor; Stem cell factor receptor; tyrosine protein kinase Kit; Tyrosine-protein kinase Kit; v kit Hardy Zuckerman 4 feline sarcoma viral oncogene homolog; v kit Hardy Zuckerman 4 feline sarcoma viral oncogene like protein; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; |
| Description | 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. |
| Cell Pathway/ Category | Primary Polyclonal Antibody |
| Protein MW | 145kDa |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |