

Phospho-mouse KIT(T357) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3784f

Specification

Phospho-mouse KIT(T357) Antibody - Product Information

Application	DB,E
Primary Accession	P05532
Other Accession	NP_066922.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	109343

Phospho-mouse KIT(T357) Antibody - Additional Information

Gene ID 16590

Other Names

Mast/stem cell growth factor receptor Kit,
SCFR, Proto-oncogene c-Kit,
Tyrosine-protein kinase Kit, CD117, Kit, SI

Target/Specificity

This mouse KIT Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T357 of mouse KIT.

Dilution

DB~~1:500

Format

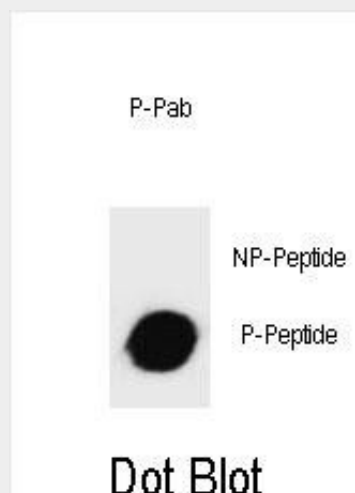
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-mouse KIT(T357) Antibody is for



Dot blot analysis of Phospho-mouse KIT-T357 Antibody Phospho-specific Pab (Cat. #AP3784f) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-mouse KIT(T357) Antibody - Background

The c-Kit proto-oncogene is the cellular homolog of the transforming gene of a feline retrovirus (v-Kit). The c-kit protein includes characteristics of a protein kinase transmembrane receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

Phospho-mouse KIT(T357) Antibody - References

Cheng, L.E., et al. J. Immunol. 185(9):5040-5047(2010)
Maeda, K., et al. J. Immunol. 185(7):4252-4260(2010)

research use only and not for use in diagnostic or therapeutic procedures.

Phospho-mouse KIT(T357) Antibody - Protein Information

Beverdam, A., et al. Dev. Dyn. 239(10):2735-2741(2010)
Ohnmacht, C., et al. Immunity 33(3):364-374(2010)
Chappaz, S., et al. J. Immunol. 185(6):3514-3519(2010)

Name Kit

Synonyms SI

Function

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.

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Cytoplasm. Note=Detected in the cytoplasm of spermatozoa, especially in the equatorial and subacrosomal region of the sperm head.

Tissue Location

Isoform 1 and isoform 2 are detected in bone marrow cells, spermatogonia and

spermatocytes, but not in round spermatids, elongating spermatids and spermatozoa. Isoform 3 is detected in round spermatids, elongating spermatids and spermatozoa, but not in spermatogonia and spermatocytes (at protein level). Isoform 1 is widely expressed and detected in fetal liver and bone marrow. Isoform 3 is detected in bone marrow cells enriched in hematopoietic stem cells

Phospho-mouse KIT(T357) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)