
CD117 / c-Kit / SCF-Receptor Ab-2 (Clone K44.2)**Mouse Monoclonal Antibody****Cat. #MS-288-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)**Cat. #MS-288-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)

Description: c-kit is a transmembrane receptor tyrosine kinase. It binds to stem cell factor (SCF). It is expressed in many tissues and cells. C-kit/SCF is involved in development of several lineages of stem cells, such as germ cells, neural crest-derived melanocytes and hematopoietic precursor cells

Comments: Ab-2 efficiently inhibits binding of SCF to c-kit. It inhibits proliferation of SCF-dependent human megakaryocytes (M07e cells). It does not affect the induction of DNA synthesis by GM-CSF or IL-3. It precipitates only the UNOCCUPIED c-kit. Ab-2 is highly recommended for flow cytometry.

Mol. Wt. of Antigen: 145kDa

Epitope: Extracellular first two N-terminus Ig-like domain of c-kit

Species Reactivity: Human. Others-not known.

Clone Designation: K44.2

Ig Isotype: IgG₁

Immunogen: Recombinant human extracellular c-kit fragment.

Applications:

- Immunofluorescence
- Inhibits SCF Binding (Order Ab without azide)
- Flow Cytometry
- Immunoprecipitation (Unoccupied c-kit only)
- Immunohistology (Frozen & methacarn/paraffin)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Skin, GI Stromal Tumor (GIST).

Cellular Localization: Cell membrane / cytoplasm

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As: 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Key References:

1. Blechman JM; et al Cell, 1995 Jan 13, 80(1):103-13.
2. Lev S; et al. Critical Reviews in Oncogenesis, 1994, 5(2-3):141-68.
3. Blechman et al. Stem Cells, 1993 Jul, 11 Suppl 2:12-21.
4. Blechman JM; et al Journal of Biological Chemistry, 1993 Feb 25, 268(6):4399-406.

Limitations and Warranty:

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Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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