



CD117 / c-Kit / SCF-Receptor Ab-3 (Clone K45)

Mouse Monoclonal Antibody

Cat. #DLN-08767, DLN-08768, or DLN-08766 (0.1ml, 0.5ml, or 1ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #DLN-08769 or DLN-08770 (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-3 does not interfere with the binding of SCF to c-kit¹

Mol. Wt. of Antigen: 145kDa

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

Species Reactivity: Human. Others-not known.

Clone Designation: K45

Ig Isotype: IgG_{2a}

Immunogen: Recombinant human extracellular c-kit fragment.

Applications:

- Immunofluorescence
- Immunohistology (Frozen or fixed in methacarn or Stieve's and embedded in 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 / cytoplasmic

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein A 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.

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.

Key References:

1. Blechman JM, *et. al.* Journal of Biological Chemistry, 1993, 268(6):4399-406.
2. Blechman JM, *et. al.* Cell, 1995, 80(1):103-13.

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Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

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.

For Research Use Only

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