

Anti c-Kit (C-term), rabbit monoclonal antibody

Product Data Sheet

Catalog #ARM-20010 Quantity: 100 µl

Catalog #ARM-20011 Quantity: 1 ml

Clone ID: YR145

Type: Rabbit Monoclonal IgG

Species Cross-reactivity: + Human - Mouse - Rat

Applications: + WB + IHC

Molecular Wt.: P10721

UniProt ID: 145 kDa

Alias Names: ckit, SCFR, Proto-oncogene tyrosine-protein kinase Kit, c-kit, CD117 antigen, PBT
Immunogen: A synthetic peptide corresponding to residues in the C-terminus (cytoplasmic domain) of human c-Kit was used as an immunogen. The antibody does not cross-react with other CSF-1/PDGF receptor family member.

Background: Member of the Tyrosine Kinase Receptor (TKRs) and highly homologous to receptor PDF and CSF-1(1-2), C-Kit is a cellular homologue of the oncogene v-Kit of the Hardy Zuckerman 4-feline sarcoma virus (3). Activation of C -Kit tyrosine kinase by SCF (Stem Cell factor) leads to autophosphorylation and association of c-Kit with substrate PI3K (4). Missense substitution within the cellular tyrosine kinase may cause Piebaldism an autosomal dominant disorder of the skin (5).

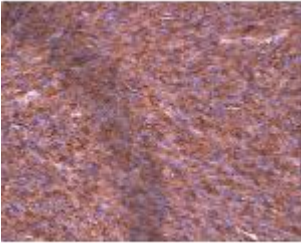
Specificity: A synthetic peptide corresponding to residues in the C-terminus (cytoplasmic domain) of human c-Kit was used as an immunogen. The antibody does not cross-react with other CSF-1/PDGF receptor family member.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

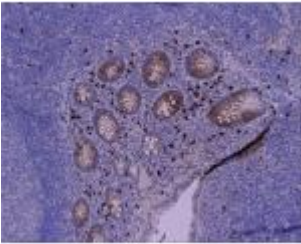
Recommended Dilutions:

WB: 1:1,000 - 10,000

IHC: 1:100-250



ARM-20011_ihc1:IHC staining of paraffinembedded human GIST with anti-CD117, clone Y145.



ARM-20011_ihc2: IHC staining of paraffin imbedded human Appendix with anti-CD117, clone Y145

References:

1. Yarden, Y., et al. (1987) EMBO (Eur. Mol. Biot. Organ.) J. 6:3341-3351.
2. Qiu, F. H., et al. (1988) EMBO (Eur. Mol. Biot. Organ.) J. 7:1003-1011.
3. Besmer, et al. 1986. Nature (Lond.). 320:415-421.
4. Zsebo, K. M., et al. (1990) Cell. 63:195-201.
5. Spritz RA, Giebel LB, Holmes SA. (1992) Am J Hum Genet. Feb;5 (2):261-9