

c-Kit Monoclonal Antibody (SP26)

Catalog NumberMA5-16330

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Monoclonal	Immunohistochemistry (Paraffin) (IHC (P))	Dilution *1:50
Type	Antibody	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Clone	SP26		
Immunogen	Synthetic peptide corresponding to cytoplasmic domain of human CD117 protein.		
Conjugate	Unconjugated		
Form	Liquid		
Storage Conditions	4° C, do not freeze		

Product specific information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is human gastrointestinal stromal tumor.

Background/Target Information

c-Kit, also known as mast/stem cell growth factor receptor (SCFR) or CD117, is a trans membrane type III tyrosine kinase receptor encoded by the c-Kit proto-oncogene, located on chromosome 4 in humans. It is expressed in hematopoietic stem cells, germ cells, mast cells and gastrointestinal tract cajal cells. Upon binding of its ligand stem cell factor (SCF), c-kit dimerizes, resulting in receptor activation and autophosphorylation of various tyrosine residues including tyrosine 703 located on the cytoplasmic domain of the receptor. This modification allows docking of Grb2 and activation of the Ras /ERK signaling pathway. SCF/c-kit can activate multiple downstream signaling pathways including PI3K, PLC-gamma and JAK/STAT. c-kit receptor activation is essential for hematopoiesis, stem cell maintenance and gametogenesis.

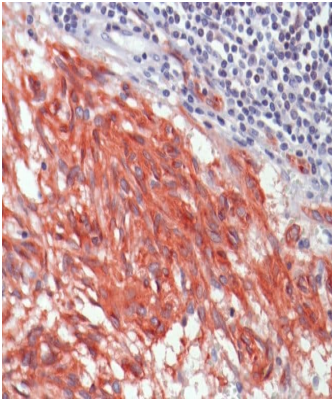
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Product Images For c-Kit Monoclonal Antibody (SP26)



c-Kit Antibody (MA5-16330) in IHC
Immunohistochemical analysis of CD117/c-kit using anti-CD117/c-kit Monoclonal Antibody (MA5-16330) in GIST Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:50.

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