

Code No. 18105

**Anti-Human
c-Kit (K963) Rabbit IgG Affinity Purify - FITC**Volume : 100 μ g

Introduction : The proto-oncogene c-kit encodes a transmembrane tyrosine kinase receptor, and its ligand for c-kit receptor has been identified as the stem cell factor (SCF). Recent experimental studies have shown that c-kit plays a key role in the development of a component of the pacemaker system that is required for generation of autonomic gut motility. These studies further suggest that interaction of the c-kit and SCF is essential for development of enteric nervous system.

Antigen : Synthetic peptide for C-terminal of human c-Kit

Purification : Affinity Purified with synthetic peptide, then FITC was conjugated.

Form : Lyophilized product from 1% BSA in PBS containing 0.05%NaN₃

How to use : 1 ml distilled water will be added to the product

Dilution : PBS (pH7.4) containing 1% BSA

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be stained in formalin fixed paraffin embedded tissues with immuno-fluorescence method. The optimal dilution is 1~10 μ g/ml, however, the dilution rate should be optimized by each laboratories.

Specificity : Human c-Kit (M.W.145kDa) specific

References : 1. Tsuura Y. et al. Preferential localization of c-kit product in tissue mast cells, basal cells skin, epithelial cells of breast, small cell lung carcinoma and seminoma/dysgerminoma in human: immunohistochemical study on formalin- fixed, paraffin-embedded tissues. *Virchows Archiv.* 1994: **424** (2), 135-141
2. Yamataka A. et al. Lack of intestinal pacemaker (c-kit) in a ganglionic bowel of patients with hirschsprung's disease. *Journal of Pediatric Surgery.* 1995: **30** (3), 441-444.
3. Yamataka A. et al. Lack of intestinal pacemaker (C-KIT-positive) cells in infantile hypertrophic pyloric stenosis. *Journal of Pediatric Surgery.* 1996: **31** (1), 96-99
4. Yamataka A. et al. Localization of intestinal pacemaker cells and synapses in the muscle layers of a patient with colonic hypoganglionosis. *Journal of Pediatric Surgery.* 1996: **31** (4), 584-587
5. Yamataka A. et al. Abnormal distribution of intestinal pacemaker (C-KIT-positive) cells in an infant with chronic idiopathic intestinal pseudoobstruction. *Journal of Pediatric Surgery.* 1998: **33** (6), 859-862
6. Kindblom LG. et al. Gastrointestinal pacemaker cell tumor (GIPACT): gastrointestinal stromal tumors show phenotypic characteristics of the interstitial cells of Cajal. *American Journal of Pathology.* 1998: **152** (5), 1259-1269
7. Hirota S. et al. Gain-of-function mutations of c-kit in human gastrointestinal stromal tumors. *Science.* 1998: **279** (5350), 577-580

Research Use Only. Not use for Clinical Diagnosis.