

Code No. 18101

Anti-Human c-Kit (K963) Rabbit IgG Affinity Purify

Volume : 100 µg

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. Recently, it is reported that the c-Kit may be an important marker for gastrointestinal stromal tumors (GISTs) which may originate from the interstitial cells of Cajal (ICCs).

Antigen

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

(TASSSQPLLVHDDV)

Purification: Purified with antigen peptide

Form

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

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 μg /mL)

Stability

: Lyophilized product, 5 years at 2 - 8 °C

: Solution, 2 years at -20 °C

Application: This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues. The optimal concentration is about 5 - 10 µg/mL, however, the concentration should be optimized by each laboratory.

: This antibody can be used for western blotting in concentration of 5 - 10 µg/mL.

Specificity

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

Reference

- 1. Hirota S. et al. Gain-of-function mutations of c-kit in human gastrointestinal stromal tumors. Science. 1998: 279 (5350), 577-580.
- 2. Komuro T. et al. Ultrastructural characterization of interstitial cells of Cajal. Arch. Histol. Cytol. 1999: 62 (4), 295-316
- 3. Yamataka A. Abnormal distribution of intestinal pacemaker (C-KIT-positive) cells in an infant with chronic idiopathic intestinal pseudoobstruction. J. Pediatric Surgery. 1998: 33 (6), 859-862
- 4. Yamataka A. et al. Intestinal Pacemaker C-KIT Cells and Synapses in Allied Hirschsprung's disorders. J. Pediatric Surgery. 1997: 32 (7), 1069-1074.
- 5. Yamataka A. et al. A Lack of Intestinal Pacemaker (c-kit) in Aganglionic Bowel of Patients With Hisrschsprung's Disease. J. Pediatric Surgery. 1995: 30 (3), 441-444.
- 6. Yamataka A. et al. Localization of intestinal pacemaker cells and synapses in the muscle layers of a patient with colonic hypoganglionosis. J. Pediatric Surgery. 1996: 31 (4), 584-587.
- 7. Yamataka A. et al. Lack of intestinal pacemaker (C-KIT-positive) cells in infantile hypertrophic pyloric stenosis. J. Pediatric Surgery. 1996: 31(1), 96-99.
- 8. Kindblom L-G. et al. Gastrointestinal pacemaker cell tumor (GIPACT): gastrointestinal stromal tumors show phenotypic characteristics of the interstitial cells of Cajal. Am. J. Pathol. 1998: 152 (5): 1259-1269

For research use only, not for use in diagnostic procedures.

Distributed by:

