

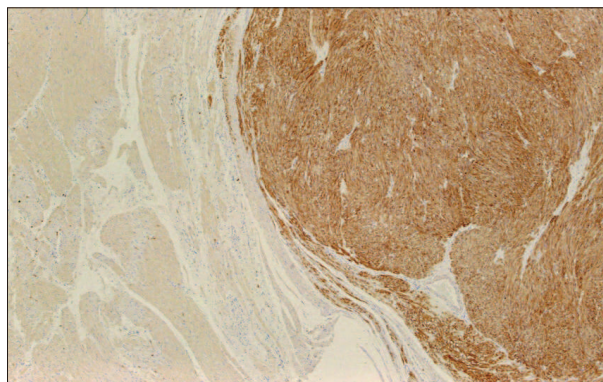


c-Kit proto-oncogene & SCF

- Research Use Only -

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).



Human Stomach (X10).

Anti- c-Kit (K963) Rabbit IgG (Code. 18101)

(Photo is kindly provided by Dr. Koichi Hirota of Osaka University)

Anti Human c-Kit & SCF Antibodies

◆ Anti-Human c-Kit Antibody

- Synthetic peptides is used as antigen
- c-Kit is express on stem cells or cancer cells
- Can be used for immunohistochemistry and western blotting

◆ Anti-Human SCF Antibodies

- SCF is express on stem cells or various cells
- Sometimes over expression on cancer cells
- Can be used for immunohistochemistry, western blotting and ELISA, which is in combination with HRP- conjugated antibody, Code No. 18305

References

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. *Journal of 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 Hirschsprung'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 - 69.

Code No.	Name			Volume	Application and comments
18101	Anti-Human	c-Kit (K963)	Rabbit IgG Affinity purify	100 µg	Specific reacts with 145kDa c-Kit Can be applied for immunohistochemistry and WB
18111	Anti-Human	SCF (K089)	Rabbit IgG Affinity purify	100 µg	Human SCF Specific Can be applied for immunohistochemistry and WB
18114	Anti-Human	SCF (K151)	Rabbit IgG Affinity purify	100 µg	Cross reacts with Mouse or Rat SCF Can be applied for WB
18115	Anti-Human	SCF (K165)	Rabbit IgG Affinity purify	100 µg	Can be applied for immunohistochemistry and WB
18116	Anti-Human	SCF (K236)	Rabbit IgG Affinity purify	100 µg	Cross reacts with Mouse SCF. Can be applied for immunohistochemistry and WB

Distributed by:



Immuno-Biological Laboratories, Inc.
8201 Central Ave NE, Suite P
Minneapolis, MN 55432

Toll-Free: 888-523-1246
Email: info@IBL-America.com
Web: www.IBL-America.com