

Code No. 10349

**Anti-Human  
c-Kit (12A8) Mouse IgG MoAb**Volume : 100 µg

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**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). This monoclonal antibody recognizes c-Kit by W.B. and I.P. applications and it enables FACS analysis of c-Kit-expressing cells. It has been confirmed that the addition of this antibody does not induce ligand-binding-dependent phosphorylation of c-Kit and it may be used as a neutralizing antibody.

**Antigen** : Recombinant protein of extracellular domain of human c-Kit

**Source** : Mouse-Mouse hybridoma  
(X63-Ag8.653×BALB/c spleen cells)

**Clone** : 12A8            **Subclass** : IgG<sub>1</sub>

**Purification** : Affinity Purified with protein A

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product

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

**Application** : This antibody can be used for western blotting at 1 - 5 µg/mL.  
: This antibody can be used for immunoprecipitation at 3 - 5 µg/mL.  
: This antibody can be used for FACS at 0.1 - 0.5 µg (per 1×10<sup>5</sup> cells).  
  
: This antibody can be used for neutralization assay at 10 µg/mL against the phosphorylation induced by ligand-binding at 20 ng/mL..  
\* For neutralization assay, please request for the antibody without BSA and NaN<sub>3</sub>.

**Specificity** : Confirmed by western blotting with SY cell.

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