

**Mouse Anti-CD117/c-Kit [C117/370]: MC0233, MC0233RTU7**

**Intended Use:** For Research Use Only

**Description:** Member of the Tyrosine Kinase Receptor (TKRs) and highly homologous to receptor PDF and CSF-1. Activation of c-Kit tyrosine kinase by SCF (Stem Cell factor) leads to autophosphorylation and association of c-Kit with substrate PI3K. CD117 is a marker for Mast cell and gastrointestinal stroma tumor. This anti-CD117 has been validated with excellent staining result by NordiQC, an independent scientific organization, promoting the quality of immunohistochemistry for pathology laboratories.

**Specifications:**

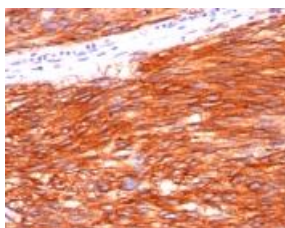
Clone: C117/370  
Source: Mouse  
Isotype: IgG1k  
Reactivity: Human  
Localization: Membrane, cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt., ICC/IF  
Package:

Description	Catalog No.	Size
CD117/c-Kit Concentrated	MC0233	1 ml
CD117/c-Kit Prediluted	MC0233RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Lung adenocarcinoma  
Concentrated Dilution: 50-200  
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes Using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human GIST stained with anti-CD117 using DAB

**References:**

1. Gene expression ontogeny of spermatogenesis in the marmoset uncovers primate characteristics during testicular development. Yu-Ching Lin Z, et al. Dev Biol N/A:N/A, 2015.
2. C-Kit Promotes Growth and Migration of Human Cardiac Progenitor Cells via the PI3K-AKT and MEK-ERK Pathways. Vajravelu BN, et al. PLoS One 10:e0140798, 2015.
3. Interleukin 13-positive mast cells are increased in immunoglobulin G4-related sialadenitis. Takeuchi M, et al. Sci Rep 5:7696, 2015.
4. T helper 2 and regulatory T-cell cytokine production by mast cells: a key factor in the pathogenesis of IgG4-related disease. Takeuchi M, et al. Mod Pathol N/A:N/A, 2014.
5. Membrane-bound human SCF/KL promotes in vivo human hematopoietic engraftment and myeloid differentiation. Takagi S, et al. Blood 119:2768-77, 2012.

Doc. 100-MC0233  
Rev. A