

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:

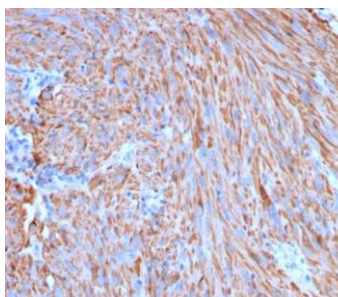
Clone: C117/370
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Localization: Membrane, cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA, and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., ICC/IF
 Package:

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 Pressure Cooker or 30-60 minutes 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.

Doc. 100-MC0233
Rev. A