

Rabbit Anti-CD117/c-Kit [YR145]: RM0226, RM0226RTU7

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:

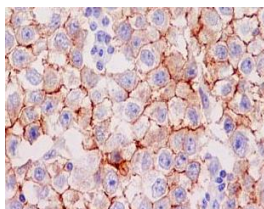
Clone: YR145
Source: Rabbit
Isotype: IgG
Reactivity: Human
Localization: Membrane, cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA, and ≤0.09% sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, WB
Package:

Description	Catalog No.	Size
CD117/c-Kit Concentrated	RM0226	1 ml
CD117/c-Kit Prediluted	RM0226RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Lung adenocarcinoma
Concentrated Dilution: 25-150
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 seminoma 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.