c-Kit/CD117 (ABT064) Mouse mAb

CatalogNo: YM4434

Key Features

Host Species
- Mouse

Reactivity
- Human,

Applications
- IHC,WB,IF,ELISA

MW
- 120kD (Calculated)

150kD (Observed)

Isotype
- IgG2b,Kappa

Recommended Dilution Ratios

IHC 1:200-1000
WB 1:500-2000
IF 1:100-500
ELISA 1:1000-5000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	ABT064

Immunogen Information

Immunogen	Synthesized peptide derived from human CD117 AA range: 1-100
Specificity	The antibody can specifically recognize human CD117 protein.

Target Information

Gene name KIT SCFR

Protein Name C Kit;c-Kit;c-Kit Ligand;CD117;Kit;Kit Ligand;KIT oncogene;KIT proto oncogene receptor tyrosine kinase;KIT_HUMAN;Mast cell growth factor receptor;Mast/stem cell growth factor receptor Kit;MGF;p145 c-kit;PBT;Piebald trait protein;Proto oncogene c Kit;Proto oncogene tyrosine protein kinase Kit;Proto-oncogene c-Kit;SCF Receptor;SCFR;soluble KIT variant 1;Steel Factor Receptor;Stem cell factor receptor;tyrosine protein kinase Kit;Tyrosine-protein kinase Kit;v kit Hardy Zuckerman 4 feline sarcoma viral oncogene homolog;v kit Hardy Zuckerman 4 feline sarcoma viral oncogene like protein;v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog

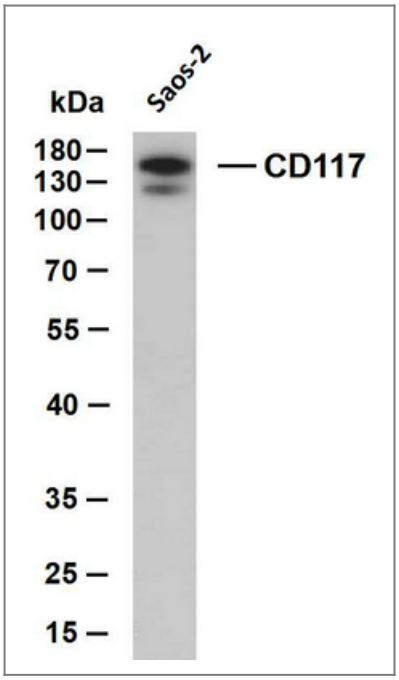
Organism	Gene ID	UniProt ID
Human	3815;	P10721;
Mouse	16590;	P05532;

Cellular Localization Cytoplasmic, Membranous

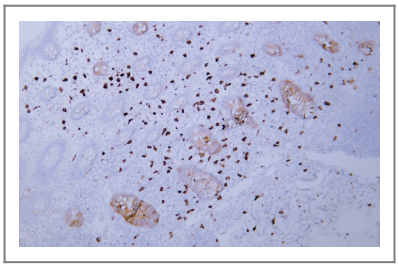
Tissue specificity Appendix

Function Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Disease:Defects in KIT are a cause of gastrointestinal stromal tumor (GIST) [MIM:606764].,Disease:Defects in KIT are a cause of piebaldism [MIM:172800]. Piebaldism is an autosomal dominant genetic developmental abnormality of pigmentation characterized by congenital patches of white skin and hair that lack melanocytes.,Disease:Defects in KIT have been associated with testicular tumors [MIM:273300]. It includes germ cell tumor (GCT) or testicular germ cell tumor (TGCT).,Function:This is the receptor for stem cell factor (mast cell growth factor). It has a tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase (Pi3K).,online information:CD117 entry,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 5 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Interacts with APS. Interacts with MPDZ (via the tenth PDZ domain). Interacts with PTPRU.,

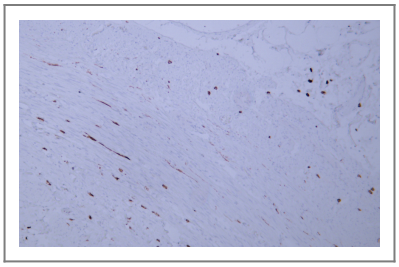
Validation Data



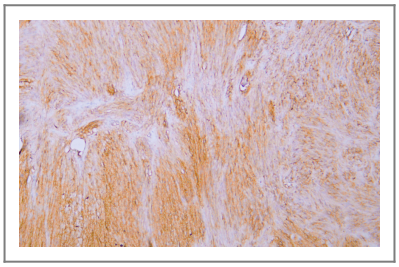
Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CD117(ABT064) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Saos-2



Human appendix tissue was stained with anti-CD117(ABT064) antibody.



Human appendix tissue was stained with anti-CD117(ABT064) antibody.



Human GIST tissue was stained with anti-CD117(ABT064) antibody.

Contact information

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Please scan the QR code to access additional product information: **c-Kit/CD117 (ABT064) Mouse mAb**