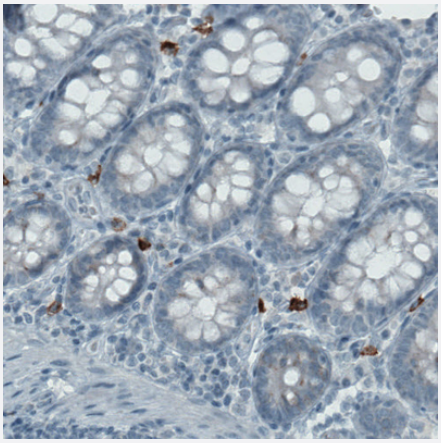
Sm Size

KIT monoclonal antibody, clone CL1657

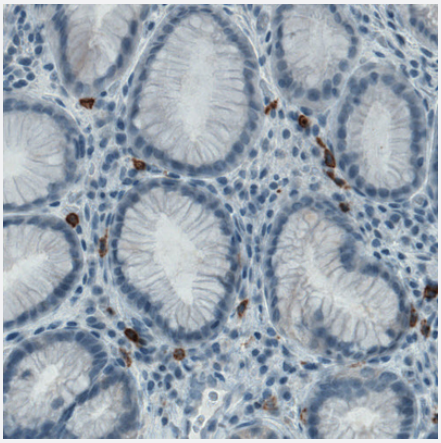
Catalog # MAB15538 Size 25 uL, 100 uL

Applications



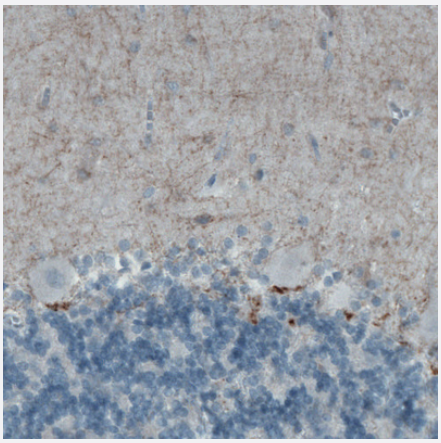
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong immunoreactivity in a subset of lymphoid cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong positivity in a subset of lymphoid cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows moderate positivity in neuropil of the molecular layer.

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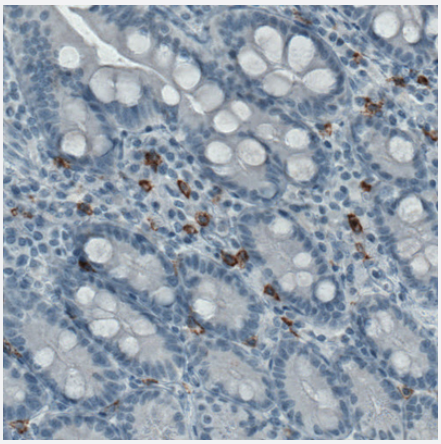
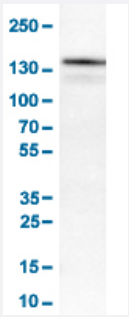


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong immunoreactivity in a subset of lymphoid cells (macrophages).



Western Blot (Cell lysate)

Western Blot analysis of RT-4 cell lysates with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human KIT.
Immunogen	Recombinant protein corresponding to amino acids 50-190 of human KIT.
Sequence	VGDEIRLLCTDPGFVKWTFEILDETNENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPA KLFLVDRSLYGKEDNDTLVRCPLTDPEVTNYSLKGCQGKPLPKDLRFIPDPKAGIMIKSVKRAYHR LCLHCSVDQ
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500 - 1:1000) Western Blot (1:500 - 1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

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Storage Instruction	Store at 4°C for short term storage. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong immunoreactivity in a subset of lymphoid cells.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong positivity in a subset of lymphoid cells.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows moderate positivity in neuropil of the molecular layer.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538) shows strong immunoreactivity in a subset of lymphoid cells (macrophages).

- Western Blot (Cell lysate)

  Western Blot analysis of RT-4 cell lysates with KIT monoclonal antibody, clone CL1657 (Cat # MAB15538).

Gene Info — KIT

Entrez GeneID	3815
Protein Accession#	P10721
Gene Name	KIT
Gene Alias	C-Kit, CD117, PBT, SCFR
Gene Description	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
Omim ID	164920 172800 273300 601626 606764
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as th e cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembra ne receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this ge ne are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous luk emia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	mast/stem cell growth factor receptor|proto-oncogene tyrosine-protein kinase Kit|soluble KIT varia nt 1

Pathway

- Acute myeloid leukemia
- Cytokine-cytokine receptor interaction
- Endocytosis
- Hematopoietic cell lineage
- Melanogenesis
- Pathways in cancer

Disease

- Acute Disease
- Aneuploidy
- Azoospermia
- Chronic Disease
- Constipation
- Disease Progression
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Hematologic Neoplasms
- Hyperpigmentation
- Infertility

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- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Malignant melanoma
- Mastocytosis
- Melanoma
- Neoplasm
- Neoplasm Recurrence
- Neoplasm Seeding
- Oligospermia
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms
- Skin Neoplasms
- Splenic Neoplasms
- Stomach Neoplasms
- Thyroid Neoplasms
- Translocation

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