

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

10-6586: Mouse Monoclonal Antibody to KIT (Clone: 566CT8.5.4)(Discontinued)

Clonality: Monoclonal **Clone Name:** 566CT8.5.4 Application: WB.IF Reactivity: Human Gene: KIT Gene ID: 3815 **Uniprot ID:** P10721 Format: **Purified**

Mast/stem cell growth factor receptor Kit, SCFR, Piebald trait protein, PBT, Proto-oncogene c-

Alternative Name : Kit, Tyrosine-protein kinase Kit, p145 c-kit, v-kit Hardy-Zuckerman 4 feline sarcoma viral

oncogene homolog, CD117, KIT, SCFR

Isotype: Mouse IgM

Immunogen Information: Recombinant Protein

Description

This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

Product Info

Amount : 80 μl / 400 μl

Content: Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is

prepared by Euglobin precipitation followed by dialysis against PBS.

Storage condition:

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots

to prevent freeze-thaw cycles.

Application Note

WB~1:100|| IF~1:10~100

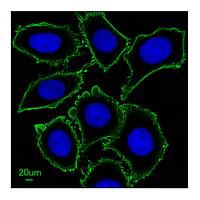


Figure 1: Immunofluorescent analysis of U251 cells, using KIT Antibody (10-6586). KIT Antibody was diluted at 1:100 dilution. Dylight Fluor 488-conjugated goat antimouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Dylight Fluor® 554 (red) conjugated Phalloidin (red).



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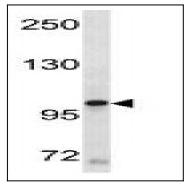


Figure 2: Western blot analysis of KIT Antibody (10-6586) in A549 cell line lysates $(35)^{1/4}$ g/lane). This demonstrates the KIT antibody detected the KIT protein.

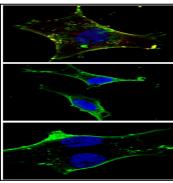


Figure 3: Fluorescent confocal image of an SY5Y cell stained with KIT antibody (10-6586). SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with KIT primary antibody (1:500, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey antimouse antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin.