

A22587

Leader in Biomolecular Solutions for Life Science



ABflo® 647 Rabbit anti-Human CD117/c-Kit mAb

Catalog No.: A22587

Basic Information

Observed MW

Refer to figures

Calculated MW

110kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC56005-ABf647

Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

Background

This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

FC 5 µl per 10⁶ cells in
 100 µl volume

Immunogen Information

Gene ID

3815

Swiss Prot

P10721

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 26-520 of human CD117/c-Kit (NP_000213.1).

Synonyms

PBT; SCFR; C-Kit; CD117; MASTC

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

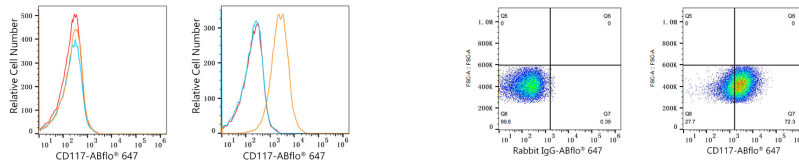
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.03% proclin300, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 MCF7 cells (negative control, Left) and HEL cells (Right) were surface-stained with ABflo® 647 Rabbit anti-Human CD117/c-Kit mAb (A22587, 5 μ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 HEL cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, left) or ABflo® 647 Rabbit anti-Human CD117/c-Kit mAb (A22587, 5 μ l/Test, right).