

# ABflo® 450 Rabbit anti-Human CD117/c-Kit mAb

**Catalog No.: A27933**

## Basic Information

**Observed MW****Calculated MW**  
110kDa**Category**  
Primary antibody**Applications**  
FC**Cross-Reactivity**  
Human**CloneNo number**  
ARC56005**Conjugate**  
ABflo® 450. Ex:406nm. Em:445nm.

## Recommended Dilutions

**FC** 5 µl per 10<sup>6</sup> cells in 100 µl  
volume

## 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.

## Immunogen Information

**Gene ID**  
3815**Swiss Prot**  
P10721**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

PBT; SCFR; C-Kit; CD117; MASTC

## Contact

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## Product Information

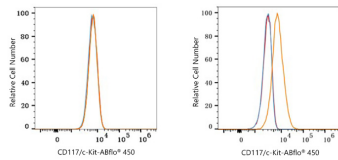
**Source**  
Rabbit**Isotype**  
IgG**Purification**  
Affinity purification**Storage**

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data

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Flow cytometry: 1X10<sup>6</sup> MCF7 cells (negative control, left) and HEL cells (right) were surface-stained with ABflo® 450 Rabbit anti-Human CD117/c-Kit mAb (A27933, 5 µl/Test, orange line) or ABflo® 450 Rabbit IgG isotype control (A27451, 5 µl/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).