

CD117(Fab) Rabbit ARC56012

Catalog No.: A28054

Basic Information

Observed MW**Calculated MW**

110 kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC56012

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 1:100 - 1:500

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

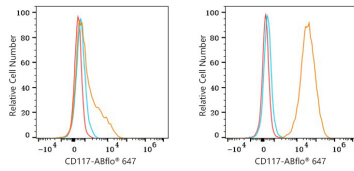
Purification

Affinity purification

Storage

Store at -20°C

Validation Data



Flow cytometry: 1×10^6 MCF7 cells (negative control, left) and HEL cells (right) were surface-stained with CD117 Fab Rabbit mAb ARC56012 (A28054, 2 $\mu\text{g/mL}$, orange line) or Rabbit IgG isotype control (AC042, 2 $\mu\text{g/mL}$, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).