

12-9434: Anti-CD117 antibody(DMC446); IgG1 Chimeric mAb

Clonality :	Monoclonal
Clone Name :	DMC446
Application :	FACS
Reactivity :	Human
Uniprot ID :	P10721
Alternative Name :	C-Kit; CD117; MASTC; PBT; SCFR; KIT
Isotype :	Rabbit/Human Fc chimeric IgG1

Description

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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 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.

Product Info

Amount :	10 µg / 100 µg
Purification :	Purified from cell culture supernatant by affinity chromatography
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage condition :	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

Application Note

FACS 1:100

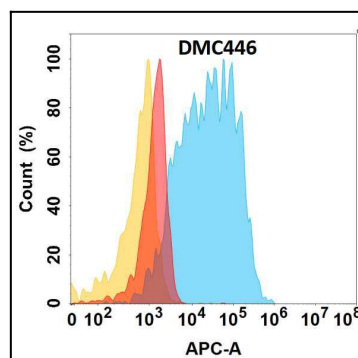


Figure 1. Flow cytometry analysis with Anti-CD117 (DMC446) on Expi293 cells transfected with human CD117 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram), and Isotype antibody on Expi293 transfected with irrelevant protein (Orange histogram).