

Mouse CD117 Monoclonal Antibody | anti-CD117 antibody

MOUSE ANTI PIG CD117

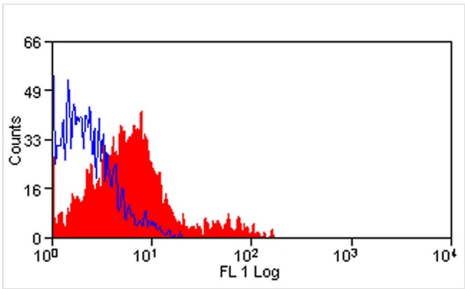
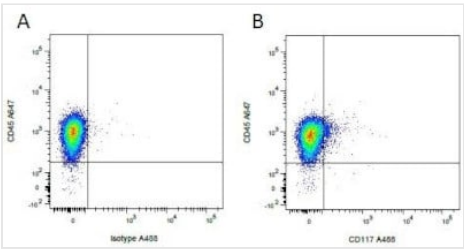
CATALOG #	HOST	APPLICATIONS
AAA50134	Mouse	Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

CD117; Monoclonal Antibody; MOUSE ANTI PIG CD117; anti-CD117 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2B8/BM
Form/Format	Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	972
Applicable Applications for anti-CD117 antibody	WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	Porcine bone marrow cells (BMC).
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Pig
Carrier Free	Yes
Fusion Partners	Spleen cells from immunized Balb/c mouse were fused with cells of the Sp2/0 myeloma cell line.
Preparation and Storage	It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.



Application Data
Figure A. A647 conjugated mouse anti porcine CD45 (please inquire) and A488 conjugated mouse IgG1 isotype control (please inquire).Figure B. A647 conjugated mouse anti porcine CD45 (please inquire) and A488 conjugated mouse anti porcine CD117 (please inquire). All experiments performed on red cell lysed porcine blood gated on mononuclear cells.

Application Data
Porcine Lymphocytes stained with Mouse anti Porcine CD117: Alexa FluorR 488

ADDITIONAL INFORMATION

Related Product Information for anti-CD117 antibody	Mouse anti Pig CD117, clone 2B8/BM is specific for porcine CD117, also known as c-kit, a 155kDa type I transmembrane protein with protein tyrosine kinase activity, which plays an important role in early hematopoiesis (Perez et al. 2007). Hematopoietic stem cells (HSC) of bone marrow have multilineage differentiation potential and an extensive capacity for self-renewal. The majority of adult bone marrow hematopoietic progenitor cells are CD117+ and have been used successfully in xenograft transplantation models for long term survival of grafts, without symptoms of graft-versus-host disease (GVHD). Mouse anti pig CD117, clone 2B8/BM recognizes CD117 on a small subset of porcine bone marrow progenitor cells and therefore provides an alternative tool from the previously used c-kit ligand stem cell factor, for the isolation and enrichment of porcine stem cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	113205556
NCBI GeneID	396810
NCBI Accession #	NP_001037990.1
NCBI GenBank Nucleotide #	NM_001044525.1
UniProt Accession #	Q2HWD6
NCBI Official Full Name	mast/stem cell growth factor receptor Kit
NCBI Official Symbol	KIT
NCBI Official Synonym Symbols	MGF
NCBI Protein Information	mast/stem cell growth factor receptor Kit; SCFR; c-kit; proto-oncogene c-Kit; proto-oncogene tyrosine-protein kinase Kit
UniProt Protein Name	Mast/stem cell growth factor receptor Kit
UniProt Gene Name	KIT
UniProt Synonym Gene Names	SCFR
UniProt Entry Name	KIT_PIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.