

Mouse anti-Pig CD45 Monoclonal Antibody | anti-CD45 antibody

Mouse Anti Pig CD45 Allotypic Variant

CATALOG # AAA50330	HOST Mouse	REACTIVITY Pig	APPLICATIONS Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay
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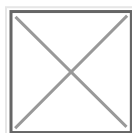
PRODUCT SYNONYMS

CD45; Monoclonal Antibody; Mouse Anti Pig CD45 Allotypic Variant; CD45 antibody (MAC323); anti-CD45 antibody

PRODUCT SPECIFICATIONS

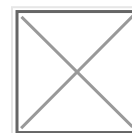
Host	Mouse
Reactivity	Pig
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MAC323
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A
Form/Format	Liquid; Phosphate Buffered Saline
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	72
Applicable Applications for anti-CD45 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Immunogen	Porcine peripheral blood lymphocytes
Carrier Free	Yes
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃)
Preparation and Storage	This product is shipped at ambient temperature. 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.

IMAGES



Application Data

Figure A. FITC conjugated Mouse anti Pig CD3 and Mouse IgG2a isotype control detected with Goat anti Mouse IgG2a:RPE. Figure B. FITC conjugated Mouse anti Pig CD3 and Mouse anti Pig CD45RC detected with Goat anti Mouse IgG2a:RPE. All experiments performed on red cell lysed porcine blood gated on lymphocytes in the presence of 10% pig serum. Data acquired on the ZE5 Cell Analyzer.



Application Data

Mouse anti Porcine CD45 antibody, clone MAC323 used to illustrate inflammatory cells in an implant model by immunohistochemistry on cryostat sections. Image caption: Collagen poor areas in peri-strut regions and neointima showing leucocyte infiltration (C, F; CD45). From: van Ditzhuijzen NS, Kurata M, van den Heuvel M, Sorop O, van Duin RWB, Krabbendam-Peters I, et al. (2017) Neoatherosclerosis development following bioresorbable vascular scaffold implantation in diabetic and non-diabetic swine.



Application Data

Mouse anti Porcine CD45 antibody, clone MAC323 used to illustrate inflammatory cells in an implant model by immunohistochemistry. Image caption: CD45 histology at 6M.OCT demonstrated the development of a highly heterogeneous neointima with inflammation (F; CD45). From: van Ditzhuijzen NS, Kurata M, van den Heuvel M, Sorop O, van Duin RWB, Krabbendam-Peters I, et al. (2017) Neoatherosclerosis development following bioresorbable vascular scaffold implantation in diabetic and non-diabetic swine.



Application Data

Figure A. FITC conjugated mouse anti porcine CD3 and purified mouse IgG2a isotype control detected with RPE conjugated goat anti mouse IgG. Figure B. FITC conjugated mouse anti porcine CD3 and purified mouse anti porcine CD45 detected with RPE conjugated goat anti mouse IgG. All experiments performed on red cell lysed porcine blood gated on lymphocytes. Data acquired on the ZE5 Cell Analyzer.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45 antibody

Mouse anti Pig CD45 allotypic variant antibody, clone MAC323 recognizes an allotypic determinant of porcine CD45, also known as the leucocyte common antigen (LCA). The antibody has been shown to recognize CD45 in pigs of the Large White and German Landrace strains. Another antibody, clone K252.1E4, recognizes a monomorphic determinant on porcine CD45. When K252.1E4 is used in conjunction with MAC323, it can be shown that MAC323 stains a subset of the leukocytes that are detected by K252.1E4; indicating a loss of the epitope in MAC323-ve animals rather than loss of the CD45 antigen. Cross-breeding studies in positive vs. negative animals indicate that the MAC323 gene is inherited in a simple Mendelian autosomal dominant pattern (Binns et al. 1995).

NCBI AND UNIPROT INFORMATION

NCBI GI #	44242008
NCBI GeneID	5788
NCBI Official Full Name	CD45, partial
NCBI Official Synonym Full Names	protein tyrosine phosphatase receptor type C
NCBI Official Symbol	PTPRC
NCBI Official Synonym Symbols	LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd45-antibody-clone-mac323-immunohistochemistry-immunoprecipitation-flow-cytometry-elisa/50330>