

Mouse WC1 Monoclonal Antibody | anti-WC1 antibody

Mouse Anti Bovine WC1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50375	Mouse	Bovine, Sheep, Goat	Immunoprecipitation, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

WC1; Monoclonal Antibody; Mouse Anti Bovine WC1; WC1 antibody (CC15); anti-WC1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine, Sheep, Goat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	CC15
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Liquid; Phosphate Buffered Saline
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	1436
Applicable Applications for anti-WC1 antibody	IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	Bovine lymphocytes
Carrier Free	Yes
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Preservative Stabilizers	0.09% Sodium Azide
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



Application Data

Mouse anti Bovine WC1 antibody, clone CC15 used to identify WC1 expressing lymphocytes in tick infested bovine skin by immunohistochemistry on formalin fixed paraffin embedded tissue sections. Image caption: Lymphocyte phenotypes in tick-infested skins. Cryopreserved sections were stained with peroxidase-immunohistochemistry to counts local lymphocytes, as described in the methods section. The blue arrowhead marks cement cone produced by R. microplus showing the sections in the center of tick attachment (Zone 1 or 2, Additional file 1: Figure S1b), while black arrowhead marks the lymphocytes surrounding cement cone (original magnifications were 10× and 100×). From: Franzin AM, Maruyama SR, Garcia GR, Oliveira RP, Ribeiro JM, Bishop R, Maia AA, Moré DD, Ferreira BR, Santos IK. Immune and biochemical responses in skin differ between bovine hosts genetically susceptible and resistant to the cattle tick Rhipicephalus microplus. Parasit Vectors. 2017 Jan 31;10(1):51.



Application Data

Figure A. RPE conjugated Mouse anti Bovine CD45RO Antibody and FITC conjugated Mouse IgG2a isotype control . Figure B. RPE conjugated Mouse anti Bovine CD45RO Antibody and FITC conjugated Mouse anti Bovine WC1 Antibody . All experiments performed on red cell lysed bovine blood gated on lymphoid cells in the presence of 10% rat serum. Data acquired on the ZE5 Cell Analyzer.

ADDITIONAL INFORMATION

Related Product Information for anti-WC1 antibody	Mouse anti Bovine WC1 antibody, clone CC15 recognizes bovine WC1, a ~215/300 kDa antigen expressed on the majority of gamma/delta T lymphocytes. These cells also express low levels of CD5, but are negative for other B and T cell markers. The WC1 antigen is reported to be involved in a number of processes, including activation of gamma/delta T cells and the development of a Th1-biased acquired immune response (Rogers et al. 2005). Mouse anti Bovine WC1 antibody, clone CC15 is routinely tested in flow cytometry on bovine peripheral blood lymphocytes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68299805
NCBI GeneID	338056
NCBI Accession #	NP_788824.1
NCBI GenBank Nucleotide #	NM_176651.1
UniProt Accession #	P30205
NCBI Official Full Name	antigen WC1.1
NCBI Official Symbol	CD163L1
NCBI Official Synonym Symbols	WC1; WC1-2; WC1-5; WC1.1
NCBI Protein Information	antigen WC1.1
UniProt Protein Name	Antigen WC1.1
UniProt Entry Name	WC11_BOVIN

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.