

Mouse CD172a Monoclonal Antibody | anti-CD172a antibody

MOUSE ANTI RAT CD172a

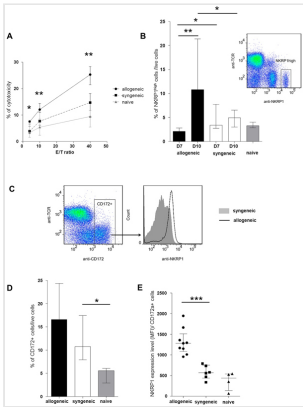
CATALOG #	HOST	APPLICATIONS
AAA11967	Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CD172a; Monoclonal Antibody; MOUSE ANTI RAT CD172a; anti-CD172a antibody

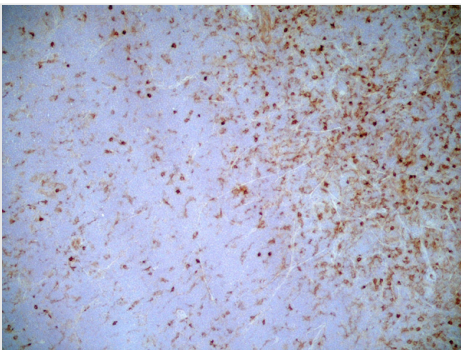
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	OX-41
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	509
Applicable Applications for anti-CD172a antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Flow Cytometry: Minimum Dilution: 1/100; Maximum Dilution: 1/200 Immunohistology - Paraffin: Application Note: This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Rat
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. Shelf Life: 18 months from date of despatch.



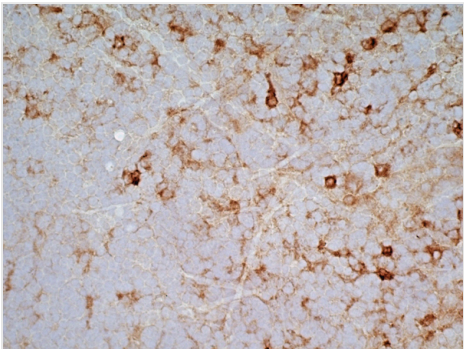
Application Data

Published clone specific image Alloimmunity-associated cytotoxicity is mediated through the NKG2D receptor. (A) Liver expression of nkg2d on day ten after liver transplantation. (B) Representative NKG2D expression levels in blood NK cells (left) and monocytes (right) of allogeneic (black) and syngeneic (grey) recipients. Isotype was used as control (dashed lines). (C) Sorted blood NK cell cytotoxicity inhibition with anti-NKG2D antibody or with anti-NKp30 antibody. (D) Levels of NKG2D ligand (rae1l, rrlt and irp94) expression in the liver on day ten after transplantation. (E) Levels of NKG2D ligand (rae1l, rrlt and irp94) expression in rat HCC cell lines. (F) Representative level of recombinant NKG2D-Fc binding to rat HCC cells lines. *p



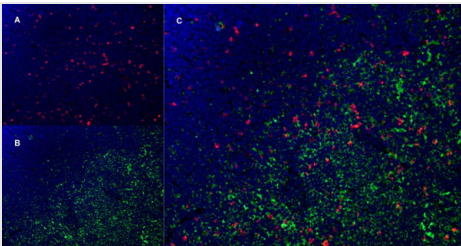
Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody followed by horseradish peroxidase conjugated Goat anti Mouse IgG2a as a detection reagent. Low power



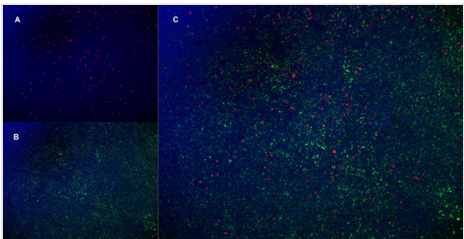
Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody followed by horseradish peroxidase conjugated Goat anti Mouse IgG2a as a detection reagent. High power



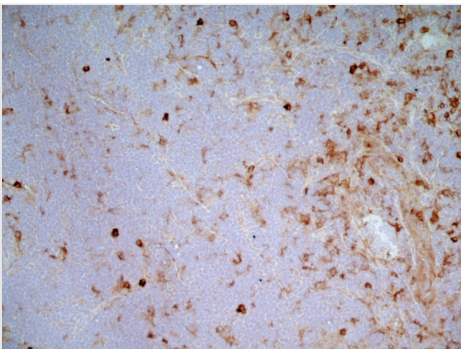
Application Data

Immunofluorescence staining of rat lymphnode cryosection with Mouse anti Rat CD172a antibody, red in A and Mouse anti Rat CD4, green in B. C is the Merged image with nuclei counter-stained blue using DAPI. Medium power



Application Data

Immunofluorescence staining of rat lymphnode cryosection with Mouse anti Rat CD172a antibody, red in A and Mouse anti Rat CD4, green in B. C is the Merged image with nuclei counter-stained blue using DAPI. Low power



Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody followed by horseradish peroxidase conjugated Goat anti Mouse IgG2a as a detection reagent. Medium power

ADDITIONAL INFORMATION

Related Product Information for anti-CD172a antibody	Mouse anti Rat CD172a antibody, clone OX-41 recognizes rat CD172a, also known as Signal regulatory protein (SIRP). CD172a is expressed selectively by myeloid cells and by neurons. MRC OX-41 binds to a different epitope on SIRP than ED9. It does not block the interaction of CD172a - CD47.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31543529
NCBI GeneID	25528
NCBI Accession #	NP_037148.2
NCBI GenBank Nucleotide #	NM_013016.2
UniProt Accession #	P97710; O08951; O70426; Q9QWI5
Molecular Weight	55,691 Da
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type substrate 1
NCBI Official Synonym Full Names	signal-regulatory protein alpha
NCBI Official Symbol	Sirpa
NCBI Official Synonym Symbols	Bit; Ptpns1; SHPS-1
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type substrate 1; Brain immunoglobulin like protein with tyrosine - based activation motifs; CD172 antigen-like family member A; Protein tyrosine phosphatase non-receptor type substrate 1 (SHP substrate 1); Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1); brain Ig-like molecule with tyrosine-based activation motifs; inhibitory receptor SHPS-1; macrophage fusion receptor; macrophage membrane protein MFP150; signal-regulatory protein alpha-1; sirp-alpha-1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1
UniProt Gene Name	Sirpa
UniProt Synonym Gene Names	Bit; Mfr; Ptpns1; Shps1; Sirp; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1
UniProt Entry Name	SHPS1_RAT

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.