

Rat CD169 Monoclonal Antibody | anti-CD169 antibody

RAT ANTI MOUSE CD169:FITC

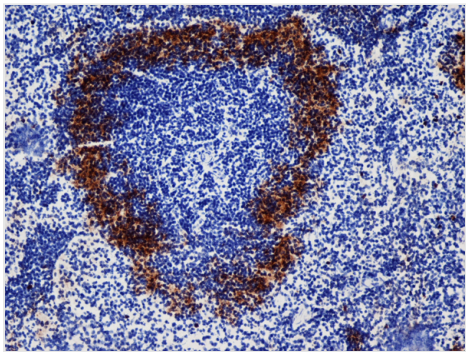
CATALOG # AAA12205	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

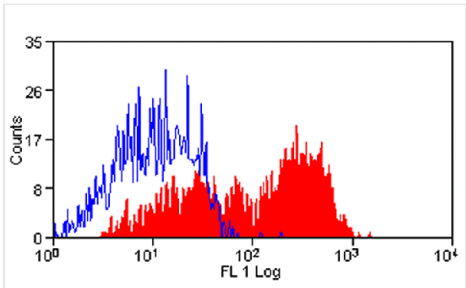
CD169; Monoclonal Antibody; RAT ANTI MOUSE CD169:FITC; anti-CD169 antibody

PRODUCT SPECIFICATIONS

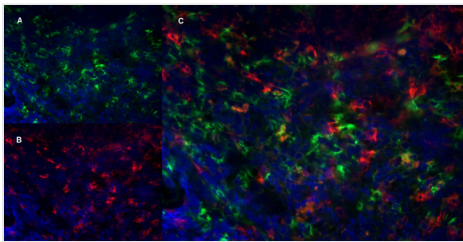
Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	3D6.112
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	1701
Applicable Applications for anti-CD169 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Flow Cytometry: The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR. Flow Cytometry: Minimum Dilution: Neat; Maximum Dilution: 1/5
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Mouse
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. This product is photosensitive and should be protected from light. 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.



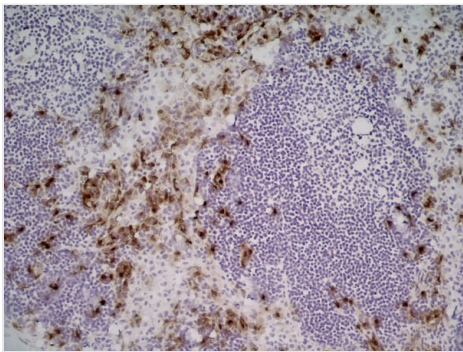
Application Data
Frozen mouse spleen stained with Rat anti Mouse CD169



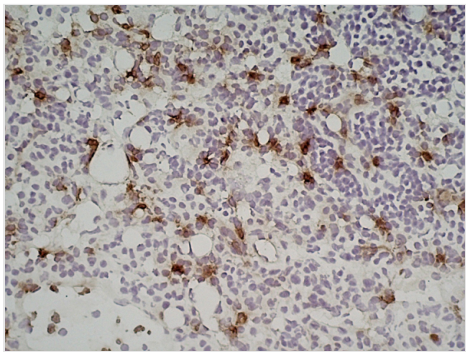
Application Data
Mouse peritoneal macrophages stained with Rat anti Mouse CD169:FITC



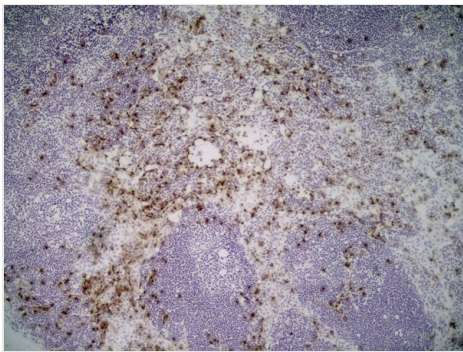
Application Data
Immunofluorescence staining of mouse lymph node cryosection with Rat anti Mouse CD169 antibody clone 3D6.112 , green in A and Rat anti Mouse CD8 antibody, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. High power



Application Data
Immunoperoxidase staining of Mouse lymph node cryosection stained with Rat anti Mouse CD169 antibody, clone 3D6.112 followed by Goat anti Rat IgG antibody as a detection reagent. Medium power



Application Data
Immunoperoxidase staining of Mouse lymph node cryosection stained with Rat anti Mouse CD169 antibody, clone 3D6.112 followed by Goat anti Rat IgG antibody as a detection reagent. High power



Application Data
Immunoperoxidase staining of Mouse lymph node cryosection stained with Rat anti Mouse CD169 antibody, clone 3D6.112 followed by Goat anti Rat IgG antibody as a detection reagent. Low power

ADDITIONAL INFORMATION

Related Product Information for anti-CD169 antibody	Rat anti Mouse CD169 antibody, clone 3D6.112 recognizes mouse CD169 also known as sialoadhesin, Sheep erythrocyte receptor or Siglec-1. CD169 is a 1695 amino acid, ~180kDa single pass, type 1 transmembrane glycoprotein containing a single Ig-like V-type domain and sixteen Ig-like C2-type domains. CD169 is a macrophage restricted receptor, preferentially binding to alpha 2,3 linked sialic acid residues (Crocker et al. 1991) and is expressed on stromal macrophages in many tissues, particularly in lymph nodes, bone marrow and on marginal metallophilic macrophages in the spleen (Morris et al. 1991). CD169 has been implicated in a number of roles including cell-cell interactions with lymphocytes (van den Berg et al. 1992) and granulocytes (Crocker et al. 1995). CD169 expressing macrophages have also been suggested to play a role in host resistance to lymphoma metastasis (Umansky et al. 1996). In pigs CD169 has also been identified as a macrophage restricted receptor for porcine reproductive and respiratory syndrome virus (Delputte et al. 2007). CD169 expressing macrophages have also been implicated in the regulation of autoimmune disease progression through their interaction with regulatory T cells via CD169 (Wu et al. 2009). CD169 has also been shown to play a critical role in the recognition and elimination of invasive sialylated microorganisms including Campylobacter jejuni (Klass et al. 2012) and group B Streptococcus (Chang et al. 2014). The functional activity of rat anti mouse CD169 antibody, clone 3D6.112, its ability to inhibit binding of red blood cells to CD169 can be considerably enhanced by derivitization of the antibody with polyethylene glycol (Ducieux et al. 2008).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	226958332
NCBI GeneID	20612
NCBI Accession #	NP_035556.3
NCBI GenBank Nucleotide #	NM_011426.3
UniProt Accession #	Q62230; O55216; Q62228; Q62229; D3YVZ3; D3YVZ4
Molecular Weight	172,769 Da
NCBI Official Full Name	sialoadhesin
NCBI Official Synonym Full Names	sialic acid binding Ig-like lectin 1, sialoadhesin
NCBI Official Symbol	Siglec1
NCBI Official Synonym Symbols	Sn; Cd169; Siglec-1
NCBI Protein Information	sialoadhesin; SER; sheep erythrocyte receptor; sialic acid-binding Ig-like lectin 1
UniProt Protein Name	Sialoadhesin
UniProt Gene Name	Siglec1
UniProt Synonym Gene Names	Sa; Sn; SER; Siglec-1
UniProt Entry Name	SN_MOUSE

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.