

Mouse anti-Bovine CD172a Monoclonal Antibody | anti-SIRPA antibody

Mouse anti Bovine CD172a

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50316	Mouse	Bovine	Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD172a; Monoclonal Antibody; Mouse anti Bovine CD172a; CD172a Antibody; anti-SIRPA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine
Clonality	Monoclonal
Isotype	IgG1
Clone Number	DH59B
Purity/Purification	Concentrated tissue culture supernatant clarified by filtration through a 0.2 micrometer filter
Form/Format	Liquid
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	506
Applicable Applications for anti-SIRPA antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Cells from multiple species with the final screening of the fusion on cells from dog
Buffer Solution	Serum free tissue culture medium containing proprietary protein free supplement with 0.09% Sodium Azide (NaN ₃)
Species Cross Reactivity	Bovine, Bison, Water Buffalo, Sheep, Horse, Dog, Cat N.B Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories peer-reviewed publications or personal communications from the originators.
Preparation and Storage	Store at +4 degree C. DO NOT FREEZE. Should this product contain a precipitate we recommend microcentrifugation before use.

ADDITIONAL INFORMATION

Related Product Information for anti-SIRPA antibody	Mouse anti Bovine CD172a, clone DH59B, recognizes bovine CD172a also known as SIRP alpha or MyD-1 antigen. CD172a is a transmembrane signal regulatory protein expressed primarily by macrophages, monocytes, dendritic cells, granulocytes, myeloid progenitors, hematopoietic stem cells, and neurons (Barclay et al. 2006). The extracellular region of SIRP family consists of three immunoglobulin superfamily (IgSF) domains; two IgC and one IgV domain (Barclay et al. 2006). The IgV domain of CD172a binds to CD47 (Hatherley et al. 2007). The binding domain of CD172a is analogous to that of immunoglobulins and T cell receptors and is involved in myeloid cell activation (Berg et al. 2004). However, signaling via CD172a is mainly inhibitory to cell function and phagocytosis (Oldenborg et al. 2001). CD172a expressing cells are stimulated in Mycobacterium tuberculosis infection, influencing migration of dendritic cells and macrophages, phagocytosis, and granuloma formation (Waters et al. 2009).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	29427567
NCBI GeneID	327666
UniProt Accession #	O46631; O46632
Molecular Weight	55,093 Da
NCBI Official Full Name	Tyrosine-protein phosphatase non-receptor type substrate 1
NCBI Official Symbol	SIRPA
NCBI Official Synonym Symbols	MYD-1; PTPNS1
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type substrate 1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1
UniProt Gene Name	SIRPA
UniProt Synonym Gene Names	MYD1; PTPNS1; SHPS1; SIRP; SHP substrate 1; SHPS-1; Sirp-alpha-1

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/cd172a-antibody-clone-dh59b-immunohistochemistry-flow-cytometry-elisa/50316>