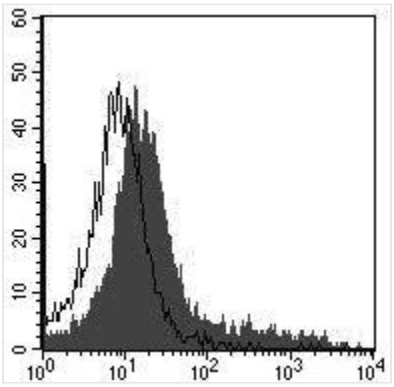
LYVE1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	LYVE1, Monoclonal Antibody
Full Product Name	LYVE1 (Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1, LYVE-1, Cell Surface Retention Sequence-binding Protein 1, CRSBP-1, Extracellular Link Domain-containing Protein 1, Hyaluronic Acid Receptor, CRSBP1, HAR, XLKD1, UNQ230/PRO263) (APC)
Product Gene Name	anti-LYVE1 antibody
Product Synonym Names	Anti -LYVE1 (Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1, LYVE-1, Cell Surface Retention Sequence-binding Protein 1, CRSBP-1, Extracellular Link Domain-containing Protein 1, Hyaluronic Acid Receptor, CRSBP1, HAR, XLKD1, UNQ230/PRO263) (APC)
Clonality	Monoclonal
Isotype	IgG1
Clone Number	10K86
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in 1ml saline, 0.5% BSA, 0.1% sodium azide. Labeled with Allophycocyanin (APC).
Purity/Purification	Affinity Purified Purified by Protein G affinity chromatography.
Specificity	Recognizes human LYVE-1.
Preparation and Storage	May be stored at 4 degree C before opening. DO NOT FREEZE! Stable at 4 degree C as an undiluted liquid. Stable for at 12 months at 4 degree C. Freezing allophycocyanin conjugates will result in a substantial loss of activity. Allophycocyanin conjugates are sensitive to light.
Molecular Weight	35,561 Da
Chromosome Location	Chromosome: 15; AC_000172.1 (42678184..42692474). Location: chromosome: 15
3D Structure	ModBase 3D Structure for Q6UC88
Immunogen	Recombinant protein corresponding to aa20-238 from human LYVE1 expressed in E. coli (Q9Y5Y7).
Product Categories/Family for anti-LYVE1 antibody	Antibodies; Abs to Receptors
Applications Tested/Suitable for anti-LYVE1 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-LYVE1 antibody	Suitable for use in Flow Cytometry. Dilution: Flow Cytometry: 10ul labels up to 1x10e6 cells. Validated for use on HUVEC cells. Flow Cytometry Protocol: 1. Cells may be Fc-blocked with 1ug of human IgG/10e5 cells for 15 minutes at RT. Do not wash excess blocking IgG from this reaction. 2. After blocking, add 10ul of L9375-01B to up to 1x10e6 cells and incubate for 30 minutes at RT. 3. Remove unbound antibody by washing the cells twice in Flow Cytometry Staining Buffer (F4568-10). Note that whole blood requires a RBC lysis step at this point using Flow Cytometry Human Lyse Buffer. 4. Resuspend the cells in Flow Cytometry Staining Buffer for final flow cytometric analysis. As a control for this analysis, cells in a separate tube should be treated with APC-labeled mouse IgG1 antibody.

Related Product Information for anti-LYVE1 antibody	LYVE1, also named extracellular link domain containing 1, is a 60-70kD type I transmembrane protein that functions as a receptor for both soluble and immobilized hyaluronan (HA). It shares 41% aa sequence homology with CD44, another known receptor for HA. LYVE1 expression is mostly restricted to lymphatic vessels. LYVE1 is a useful molecular marker for lymphatic endothelial cells.
Other Notes	Small volumes of anti-LYVE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LYVE1 purchase	MBS632005 is an antibody targeting LYVE1. Also known as LYVE1 (Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1, LYVE-1, Cell Surface Retention Sequence-binding Protein 1, CRSBP-1, Extracellular Link Domain-containing Protein 1, Hyaluronic Acid Receptor, CRSBP1, HAR, XLKD1, UNQ230/PRO263) (APC). Reactive in Human. Host: Mouse.



Testing Data of anti-LYVE1 antibody
HUVEC cells were stained with MBS632005 (filled histogram) or APC-conjugated mouse isotype control (open histogram).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LYVE1. It may not necessarily be applicable to this product.

NCBI GI #	147904924
NCBI GeneID	404179
NCBI Accession #	NP_991384.2
UniProt Primary Accession #	Q6UC88
UniProt Related Accession #	Q6UC88
GenBank Nucleotide #	NM_205815.2
NCBI Official Full Name	lymphatic vessel endothelial hyaluronic acid receptor 1
NCBI Official Synonym Full Names	lymphatic vessel endothelial hyaluronan receptor 1
NCBI Official Symbol	LYVE1
NCBI Official Synonym Symbols	XLKD1; LYVE-1; CRSBP-1
UniProt Protein Name	Lymphatic vessel endothelial hyaluronic acid receptor 1
UniProt Synonym Protein Names	Cell surface retention sequence-binding protein 1; CRSBP-1; Extracellular link domain-containing protein 1
Protein Family	Lymphatic vessel endothelial hyaluronic acid receptor
UniProt Gene Name	LYVE1
UniProt Synonym Gene Names	CRSBP1; XLKD1; LYVE-1; CRSBP-1
UniProt Entry Name	LYVE1_BOVIN

NCBI Protein Information	lymphatic vessel endothelial hyaluronic acid receptor 1; extracellular link domain containing 1; lymphatic vessel endothelial HA recptor-1; extracellular link domain-containing protein 1; cell surface retention sequence binding protein-1; cell surface retention sequence-binding protein 1
UniProt Comments for LYVE1	Function: Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. Plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding (CRS). May act as a hyaluronan (HA) transporter, either mediating its uptake for catabolism within lymphatic endothelial cells themselves, or its transport into the lumen of afferent lymphatic vessels for subsequent re-uptake and degradation in lymph nodes. Ref.1 Subunit structure: Homodimer; disulfide-linked. Interacts with PDGFB and IGFBP3. Forms a transient ternary complex with PDGFB and PDGFRB in TGN By similarity. Ref.1 Subcellular location: Membrane; Single-pass membrane protein Potential. Note: Localized to the plasma membrane and in vesicles near extranuclear membranes which may represent trans-Golgi network (TGN) and endosomes/prelysosomeal compartments. Undergoes ligand-dependent internalization and recycling at the cell surface By similarity. Post-translational modification: N-glycosylated. Ref.1O-glycosylated. Ref.1 Sequence similarities: Contains 1 Link domain.
Research Articles on LYVE1	**1.** CRSBP-1 plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/lyve1/632005