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Anti-LYVE1 Rabbit Monoclonal Antibody

Catalog # ABO13736

Product Information

Application	WB
Primary Accession	Q9Y5Y7
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-LYVE1 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	10894
Other Names	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, LYVE1, CRSBP1, HAR, XLKD1
Calculated MW	35213
Application Details	WB 1:500-1:2000
Subcellular Localization	Membrane ; Single-pass type I membrane protein. 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.
Tissue Specificity	Mainly expressed in endothelial cells lining lymphatic vessels..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AOCO-12
Immunogen	A synthesized peptide derived from human LYVE1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	LYVE1
Synonyms	CRSBP1, HAR, XLKD1
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 (PubMed:10037799). Binds to pericellular hyaluronan matrices deposited on the surface of leukocytes and facilitates cell adhesion and migration through lymphatic endothelium (PubMed:26823460).
Cellular Location	Cell membrane; Single-pass type I membrane protein. 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 Localizes at cell-cell junctions
Tissue Location	Mainly expressed in endothelial cells lining lymphatic vessels.

Images

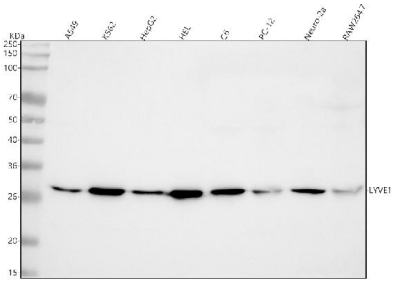


Figure 1. Western blot analysis of LYVE1 using anti-LYVE1 antibody (M04027).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A549 whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human HEL whole cell lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: rat PC-12 whole cell lysates,
Lane 7: mouse Neuro-2a whole cell lysates,
Lane 8: mouse RAW264.7 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LYVE1 antigen affinity purified monoclonal antibody (Catalog # M04027) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LYVE1 at approximately 29 kDa. The expected band size for LYVE1 is at 35 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.