

# LYVE1 (XLKD1) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2015b

#### **Product Information**

**Application** IHC-P, WB, E **Primary Accession** Q9Y5Y7

Other Accession Q6UC88, NP 006682

Reactivity Human **Predicted** Bovine Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB2847 **Calculated MW** 35213 **Antigen Region** 243-272

#### **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

Target/Specificity This LYVE1 (XLKD1) antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 243-272 amino acids from the

C-terminal region of human LYVE1 (XLKD1).

**Dilution** IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** LYVE1 (XLKD1) Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

## **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 pericelluar 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.

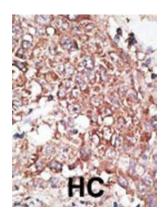
# **Background**

XLKD1 is a type I integral membrane glycoprotein. The encoded protein acts as a receptor and binds to both soluble and immobilized hyaluronan. This protein may function in lymphatic hyaluronan transport and have a role in tumor metastasis.

### References

Jackson, D.G., Trends Cardiovasc. Med. 13(1):1-7 (2003). Cursiefen, C., et al., Invest. Ophthalmol. Vis. Sci. 43(7):2127-2135 (2002). Cunnick, G.H., et al., Biochem. Biophys. Res. Commun. 288(4):1043-1046 (2001). Mouta Carreira, C., et al., Cancer Res. 61(22):8079-8084 (2001). Banerji, S., et al., J. Cell Biol. 144(4):789-801 (1999).

## **Images**



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

XLKD1 Antibody (C-term) (Cat. #AP2015b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the XLKD1 antibody detected the XLKD1 protein (arrow).

Н	L-6	0
72	2	
55	5	
36	·-	4
28	3	

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