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XLKD1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2015a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9Y5Y7
Other Accession	NP_006682
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2930
Calculated MW	35213
Antigen Region	46-77

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 XLKD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 46-77 amino acids from the N-terminal region of human XLKD1.
Dilution	WB~~1:2000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	XLKD1 Antibody (N-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.

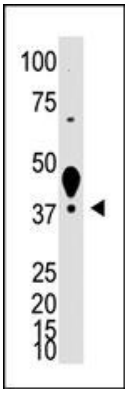
Background

One of the key groups of molecules regulating leukocyte and tumour cell migration is the glycosaminoglycan hyaluronan (HA). In inflammation, the exit of leukocytes across vascular endothelium to the underlying tissues involves interactions with cell surface lectin-like receptors on the leukocytes that bind HA on the lumenal surface of the endothelium. During normal tissue homeostasis and after tissue injury, HA is mobilized from these sites through lymphatic vessels to the lymph nodes where it is degraded before entering the circulation for rapid uptake by the liver. Lymphatic vessel endothelial hyaluronan receptor (LYVE)-1 is a major receptor for HA on the lymph vessel wall. LYVE-1 is expressed primarily on lymphatic vessel endothelium and is likely to be involved in regulating the traffic of leucocytes and tumour cells to lymph nodes.

References

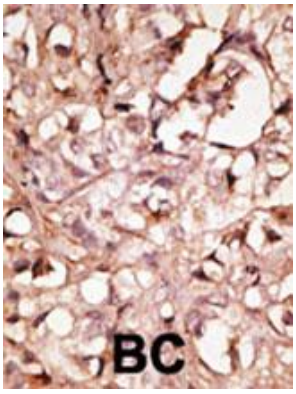
Jackson, D.G., Trends Cardiovasc. Med. 13(1):1-7 (2003).
Cursiefen, C., et al., Invest. Ophthalmol. Vis. Sci. 43(7):2127-2135 (2002).
Cunnick, G.H., et al., Biochem. Biophys. Res. Commun. 288(4):1043-1046 (2001).
Mouta Carreira, C., et al., Cancer Res. 61(22):8079-8084 (2001).
Banerji, S., et al., J.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

Images

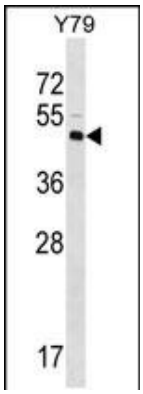


The anti-XLKD1 N-term Pab (Cat. #AP2015a) is used in Western blot to detect XLKD1 in mouse liver tissue lysate.

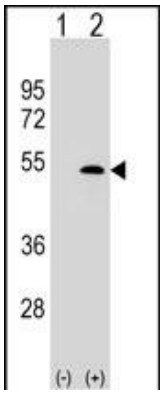
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was



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 (N-term) (Cat. #AP2015a) western blot analysis in Y79 cell line lysates (35ug/lane).This demonstrates the XLKD1 antibody detected the XLKD1 protein (arrow).



Western blot analysis of XLKD1 (arrow) using rabbit polyclonal XLKD1 Antibody (C61) (Cat. #AP2015a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the XLKD1 gene.