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Anti-Raftlin Antibody

Catalog # AP51828

Product Information

Application	WB, IHC
Primary Accession	Q14699
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63146

Additional Information

Gene ID	23180
Other Names	KIAA0084; Raftlin; Cell migration-inducing gene 2 protein; Raft-linking protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Raftlin. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	RFTN1
Synonyms	KIAA0084
Function	Involved in protein trafficking via association with clathrin and AP2 complex (PubMed:21266579, PubMed:27022195). Upon bacterial lipopolysaccharide stimulation, mediates internalization of TLR4 to endosomes in dendritic cells and macrophages; and internalization of poly(I:C) to TLR3-positive endosomes in myeloid dendritic cells and epithelial cells; resulting in activation of TICAM1-mediated signaling and subsequent IFNB1 production (PubMed:21266579, PubMed:27022195). Involved in T-cell antigen receptor-mediated signaling by regulating tyrosine kinase LCK localization, T-cell dependent antibody production and cytokine secretion (By similarity). May regulate B-cell antigen receptor-mediated signaling (PubMed:12805216). May play a pivotal role in the formation and/or maintenance of lipid rafts (PubMed:12805216).
Cellular Location	Cell membrane; Lipid-anchor. Cytoplasm. Membrane raft. Endosome. Early

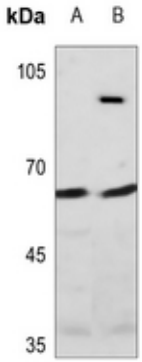
endosome. Note=Translocates from cytoplasm to cell membrane where it colocalizes with poly (I:C) and then moves to endosomes where it colocalizes with TLR3 (PubMed:21266579) Translocates from cytoplasm to cell membrane where it colocalizes with TLR4 and then together with TLR4 moves to endosomes, upon lipopolysaccharide stimulation (PubMed:27022195)

Tissue Location Expressed in B-cells (at protein level) (PubMed:12805216). Expressed in dendritic cells and macrophages (PubMed:21266579, PubMed:27022195).

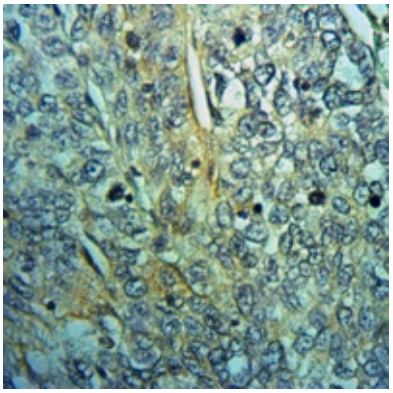
References

Kim J.W.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
Nagase T.,et al.DNA Res. 2:37-43(1995).
Saeki K.,et al.EMBO J. 22:3015-3026(2003).
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).
Suzuki T.,et al.Proteomics 10:1780-1793(2010).

Images



Western blot analysis of Raftlin expression in mouse liver (A), rat liver (B) whole cell lysates. (Predicted band size: 63 kD; Observed band size: 63 kD)



Immunohistochemical analysis of Raftlin staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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