Datasheet for ABIN391109

anti-PICK1 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	PICK1
Binding Specificity:	AA 286-316, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PICK1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PICK1 (PRKCABP) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-316 amino acids from the C-terminal region of human PICK1 (PRKCABP).
Clone:	RB5475
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pr, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PICK1

Target Details

Alternative Name:	PICK1 (PRKCABP) (PICK1 Products)
Background:	PDZ domain, but not the AH domain, of PICK1 interacts with the C termini of the GTP-bound forms of ADP-ribosylation factor-1 (ARF1) and ARF3. The interactions with ARF5 and ARF6 are weak, suggesting that the PICK1 interaction is specific for class I ARFs and that it may regulate Golgi-to-endoplasmic reticulum vesicle transport. The PDZ domain of rat Pick1 interacts with the last 10 amino acids of the short C-terminal alternative splice variants of AMPA receptor subunits. It has thus been proposed that E-S-V/I-K-I, a sequence found in these 10 amino acids, is a novel PDZ-binding motif. PRKCA phosphorylates Pick1 efficiently but binds Pick1 in both the phosphorylated and unphosphorylated states. Consistent with a neuronal role for PICK1, the mouse homolog interacts with mouse AMPA glutamate receptors and colocalizes at excitatory synapses in the brain. Metabotropic glutamate receptor-7 (mGluR7) localizes specifically to presynaptic active zones. The extreme C-terminal 3 amino acids of mGluR7 have been shown to interact with the PDZ domain of PICK1. Immunofluorescence microscopy demonstrated that both proteins are localized at excitatory synapses in hippocampal neurons, with clustering of mGluR7 at synapses requires PICK1 C-terminal PDZ-binding residues. Mutant mGluR7 lacking the PDZ-binding residues localized diffusely along axons rather than at the synapse, suggesting a role for Pick1 as a scaffolding molecule at presynaptic sites.
Molecular Weight:	46600
Gene ID:	9463
NCBI Accession:	NP_001034672, NP_001034673, NP_036539
UniProt:	Q9NRD5

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

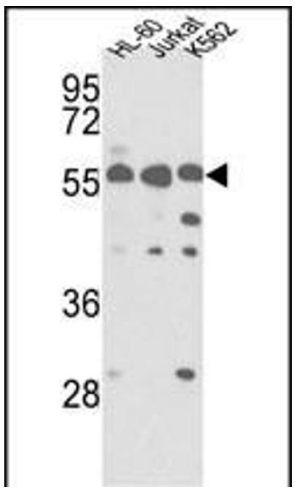
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Xue, Zhang, Chen, Lin, Shi: "PDZ protein mediated activity-dependent LTP/LTD developmental switch at rat retinocollicular synapses." in: **American journal of physiology. Cell physiology**, Vol. 298, Issue 6, pp. C1572-82, (2010) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of hPRKCABP- (ABIN391109 and ABIN2841240) in HL-60, Jurkat, K562 cell line lysates (35 µg/lane). PRKCABP (arrow) was detected using the purified Pab.