For Research Use Only

PICK1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:82919-1-PBS Featured Product

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Basic Information

Catalog Number:
82919-1-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1443

GenBank Accession Number:
BC017561

GeneID (NCBI):
9463

UNIPROT ID:
Q9NRD5

Full Name:
protein interacting with PRKCA 1

Calculated MW:
47 kDa

Observed MW:
50 kDa

Purification Method:
Protein A purification

CloneNo.:
230185B8

Applications

Tested Applications:
WB, IHC, FC (Intra), Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Background Information

Protein interacting with C kinase 1 (PICK1) was first cloned as a PKC-binding partner through yeast two hybrid system. PICK1 acts as a critical regulator of membrane receptors' subcellular trafficking to modulate neural processes such as learning and memory, and is widely expressed in brain, testis, heart, lung, liver, kidney and muscle. It probably binds to and organize the subcellular localization of a variety of membrane proteins containing some PDZ recognition sequence, for instance, PICK1 is a critical mediator of α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor (AMPAR) trafficking in neural synapses. PICK1 expression on D-serine release and glutamate transport in astrocytes suggests a potential implication of PICK1 in the progression of amyotrophic lateral sclerosis (ALS). PICK1 may also participate in breast cancer development through inhibition of TGF-β signaling.

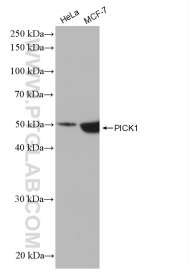
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

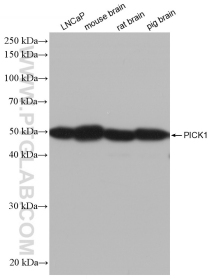
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82919-1-RR (PICK1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



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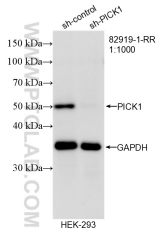
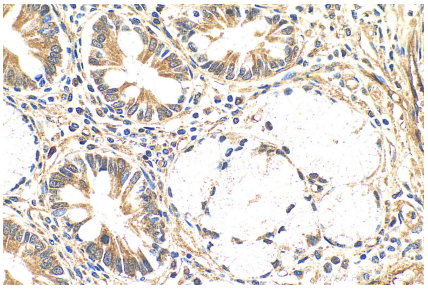
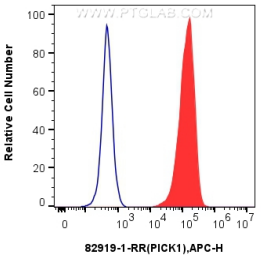


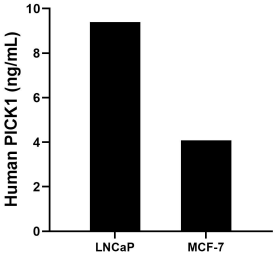
WB result of PICK1 antibody (82919-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PICK1 transfected HEK-293 cells. This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



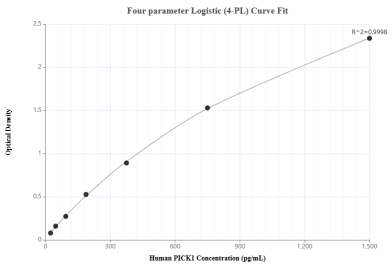
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 82919-1-RR (PICK1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



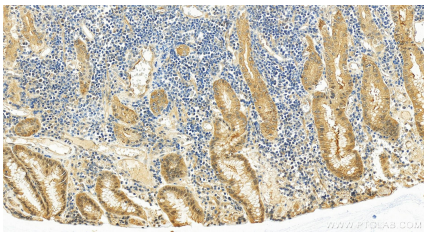
1x10^6 HEK-293T cells were intracellularly stained with 0.25 ug Anti-Human PICK1 (82919-1-RR, Clone:230185B8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166 (red), or 0.25 ug rabbit IgG isotype control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



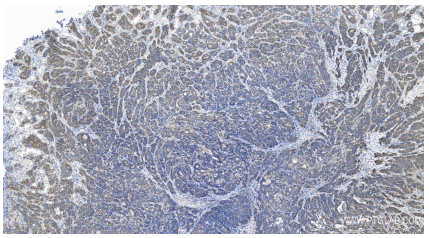
The mean PICK1 concentration was determined to be 9.40 ng/mL in LNCaP cell extract based on a 3.80 mg/mL extract load and 4.08 ng/mL in MCF-7 cell extract based on a 1.5 mg/mL extract load.



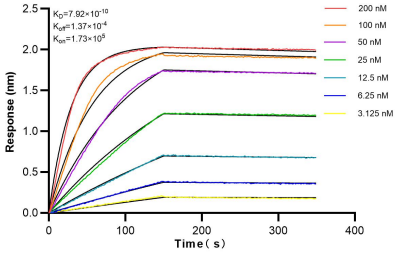
Sandwich ELISA standard curve of MP00068-3, Human PICK1 Recombinant Matched Antibody Pair - PBS only. 82919-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag1443. 82919-1-PBS was HRP conjugated as the detection antibody. Range: 23.4-1500 pg/mL



Immunohistochemical analysis of paraffin-embedded stomach cancer slide using 82919-1-RR (PICK1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 82919-1-RR (PICK1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82919-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82919-1-RR against Human PICK1 were performed. The affinity constant is 0.792 nM.