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Anti-PPP1R14D Antibody

Catalog # AP51444

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9NXH3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16508

Additional Information

Gene ID	54866
Other Names	GBPI; Protein phosphatase 1 regulatory subunit 14D; Gastrointestinal and brain-specific PP1-inhibitory protein 1; GBPI-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PPP1R14D. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
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

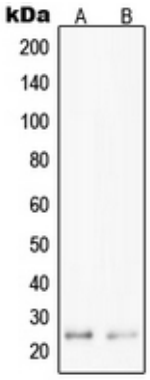
Name	PPP1R14D
Synonyms	GBPI
Function	Inhibitor of PPP1CA. Has inhibitory activity only when phosphorylated, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction.
Cellular Location	Cytoplasm.
Tissue Location	Detected in colon, intestine, kidney and brain cortex.

References

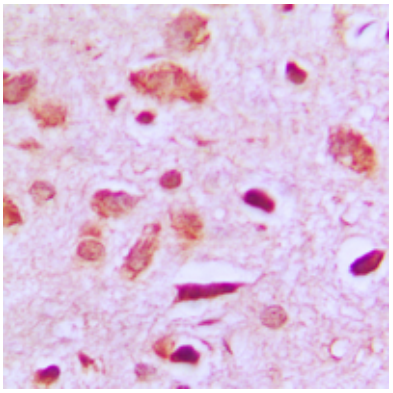
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Ota T.,et al.Nat. Genet. 36:40-45(2004).

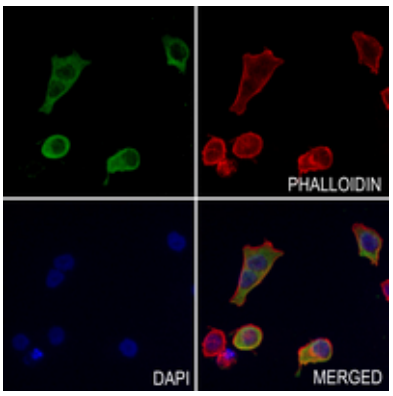
Images



Western blot analysis of PPP1R14D expression in Jurkat (A), HepG2 (B) whole cell lysates. (Predicted band size: 16 kD; Observed band size: 24 kD)



Immunohistochemical analysis of PPP1R14D staining in human brain 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.



Immunofluorescent analysis of PPP1R14D staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.