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Anti-IPPK Antibody

Catalog # AP51286

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9H8X2
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56017

Additional Information

Gene ID	64768
Other Names	C9orf12; Inositol-pentakisphosphate 2-kinase; IPK1 homolog; Inositol-1, 3, 4, 5, 6-pentakisphosphate 2-kinase; Ins(1, 3, 4, 5, 6)P5 2-kinase; InsP5 2-kinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human IPPK. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 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

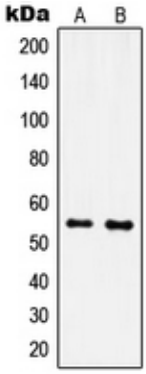
Protein Information

Name	IPPK
Synonyms	C9orf12
Function	Phosphorylates Ins(1,3,4,5,6)P5 at position 2 to form Ins(1,2,3,4,5,6)P6 (InsP6 or phytate). InsP6 is involved in many processes such as mRNA export, non-homologous end-joining, endocytosis, ion channel regulation. It also protects cells from TNF-induced apoptosis.
Cellular Location	Cytoplasm. Nucleus.
Tissue Location	Ubiquitously expressed, with high expression in heart, brain, testis and placenta.

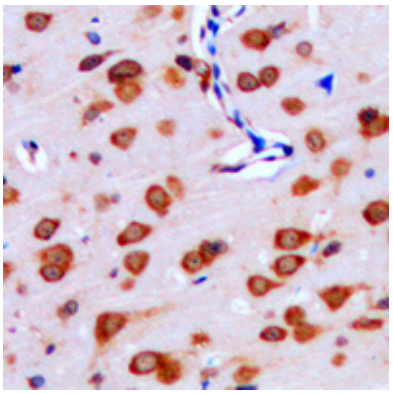
References

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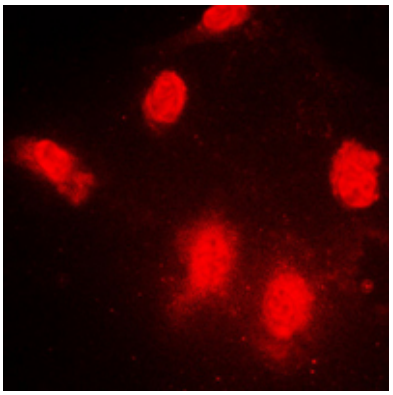
Images



Western blot analysis of IPPK expression in MCF7 (A), NIHC3T3 (B) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 56 kD)



Immunohistochemical analysis of IPPK 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 IPPK staining in NIH3T3 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 humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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