Data Sheet (Cat.No.TMAC-03403)

Anti-PPP1R1A Antibody (4O879)

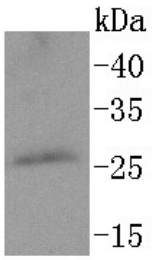
Product Details

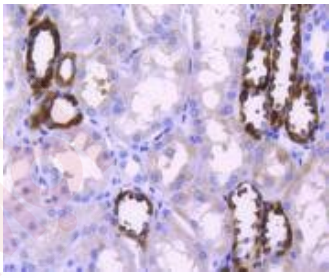
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 27 kDa.
Clone:	4O879
Purification:	ProA affinity purified

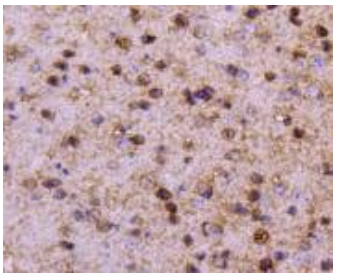
Applications

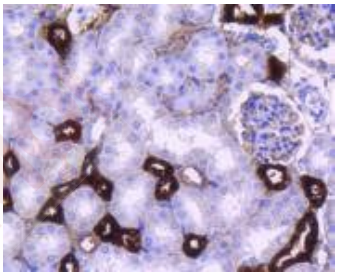
Verified Activity:

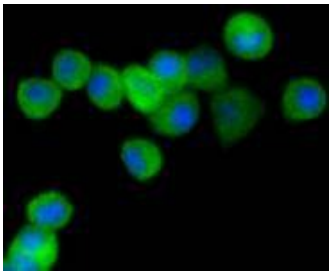
1. Western blot analysis of PPP1R1A on Rat brain lysates using anti-PPP1R1A antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PPP1R1A antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PPP1R1A antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PPP1R1A antibody. Counter stained with hematoxylin.
5. ICC staining PPP1R1A in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining PPP1R1A in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining PPP1R1A in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. Flow cytometric analysis of SH-SY5Y cells with PPP1R1A antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

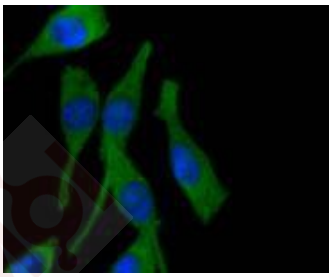


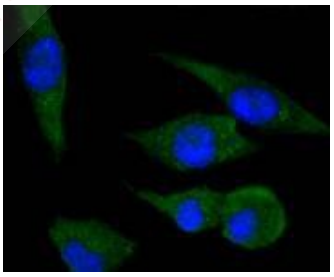


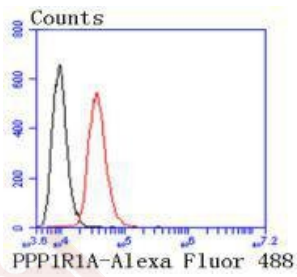












Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000; IHC: 1:100-500; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q13522

Synonyms: IPP1;I-1;IPP-1;Protein Phosphatase 1 Regulatory Subunit 1A;PPP1R1A;Protein Phosphatase Inhibitor 1

Research Background

The inhibitor of protein phosphatase 1 (IPP-1, I-1) plays a role in regulating the phosphorylation of other proteins, and is itself phosphorylated by a cyclic AMP-dependent protein kinase. IPP-1 is present in skeletal muscles and in distinct neuronal systems of the brain. The localization and expression of IPP-1 suggests that it may play discrete roles in certain regions and developing stages of the brain, independent of the regulation of protein phosphatase type 1 (PP-1). PP-1 binds to both phosphorylated and dephosphorylated IPP-1. Conversion of PP-1 to an Mn2+-dependent state appears to play a role in its regulation by IPP-1. IPP-1 attenuates the activity of glycogen phosphorylase and is thought to play an important role in the hormonal control of glycogen metabolism.

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