



CyPA Monoclonal Antibody

Catalog No	YP-mAb-04314
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PPIA
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human PPIA. AA range:51-100
Specificity	CyPA Monoclonal Antibody detects endogenous levels of CyPA protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PPIA;Cyclosporin A binding protein;Cyclosporin A-binding protein;CYPA;CYPH;Peptidyl-prolyl cis-trans isomerase A;PPIase A;Cyclophilin A;Rotamase A
Observed Band	18kD
Calculated Molecular Weight	18kD
Cell Pathway	Cytoplasm . Secreted . Nucleus . Secretion occurs in response to oxidative stress in vascular smooth muscle through a vesicular secretory pathway that includes Rho GTPase signaling, actin remodeling, and myosin II activation. .
Tissue Specificity	Blood,Bone marrow,Brain,Cajal-Retzius cell,Cervix,Colon,Epithelium,Fetal br
Function	catalytic activity:Peptidylproline (omega=180) = peptidylproline (omega=0)., enzyme regulation:Binds cyclosporin A (CsA). CsA mediates some of its effects via an inhibitory action on PPIase.,function:PPIases accelerate the folding of proteins.,function:PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.,online information:Cyclophilin entry,similarity:Belongs to the cyclophilin-type PPIase family.,similarity:Belongs to the cyclophilin-type PPIase family. PPIase A subfamily.,similarity:Contains 1 PPIase cyclophilin-type domain., subunit:Interacts with HIV-1 Capsid protein.,



Background

This gene encodes a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. The encoded protein is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. The protein can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported. [provided by RefSeq, Jul 2008],

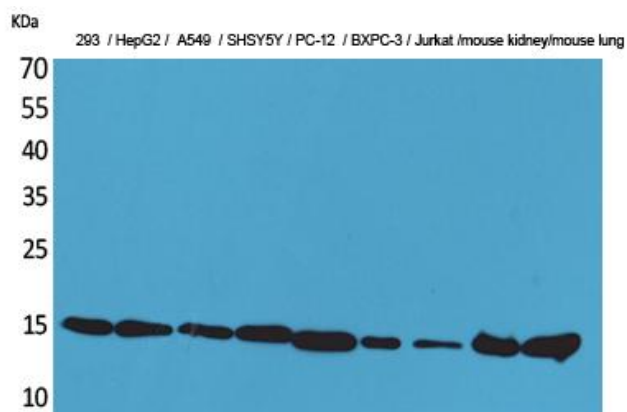
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CyPA Monoclonal Antibody