Cdc14a phosphatase Polyclonal Antibody

Catalog No	YP-Ab-16672
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	CDC14A
Protein Name	Dual specificity protein phosphatase CDC14A
Immunogen	Synthesized peptide derived from the Internal region of human Cdc14a phosphatase.
Specificity	Cdc14a phosphatase Polyclonal Antibody detects endogenous levels of Cdc14a phosphatase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CDC14A; Dual specificity protein phosphatase CDC14A; CDC14 cell division cycle 14 homolog A
Observed Band	66kD
Cell Pathway	Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle pole . Cytoplasm, cytoskeleton, spindle . Cell projection, kinocilium . Cell projection, stereocilium . Centrosomal during interphase, released into the cytoplasm at the onset of mitosis. Subsequently localizes to the mitotic spindle pole and at the central spindle (PubMed:12134069, PubMed:11901424, PubMed:15263015). Present along both the transient kinocilia of developing cochlear hair cells and the persistent kinocilia of vestibular hair cells (By similarity). .
Tissue Specificity	Aorta endothelial cell,Brain,Placenta,
Function	catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,domain:Composed of two structurally equivalent A and B domains that adopt a dual specificity protein phosphatase (DSP) fold.,function:Dual-specificity phosphatase. Required for centrosome separation and productive cytokinesis during cell division. May dephosphorylate the APC subunit FZR1/CDH1, thereby promoting APC-FZR1 dependent degradation of mitotic cyclins and subsequent exit from mitosis.,similarity:Belongs to the

	protein-tyrosine phosphatase family. Non-receptor class CDC14 subfamily.,subcellular location:Centrosomal during interphase, released into the cytoplasm at the onset of mitosis. Subsequently localizes to the midzone of the mitotic spindle.,subunit:Interacts with KIF20A, which is required to localize CDC14 to the midzone
Background	cell division cycle 14A(CDC14A) Homo sapiens The protein encoded by this gene is a member of the dual specificity protein tyrosine phosphatase family. It is highly similar to Saccharomyces cerevisiae Cdc14, a protein tyrosine phosphatase involved in the exit of cell mitosis and initiation of DNA replication, suggesting a role in cell cycle control. This protein has been shown to interact with, and dephosphorylate tumor suppressor protein p53, and is thought to regulate the function of p53. Alternative splicing of this gene results in several transcript variants encoding distinct isoforms. [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.

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