Rabbit PIN4 Polyclonal Antibody | anti-PIN4 antibody

Phospho-PIN4 (Tyr122) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329218	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry**

PRODUCT SYNONYMS

PIN4; Polyclonal Antibody; Phospho-PIN4 (Tyr122) Antibody; EPVH; Eukaryotic parvulin homolog; hEPVH; hPar14; hPar17; MGC138486; OTTHUMP00000023527; OTTHUMP00000217483; OTTHUMP00000217485; Par14; Par17; Parvulin 14; Parvulin-14; Parvulin-17; Peptidyl prolyl cis trans isomerase NIMA interacting 4; Peptidyl prolyl cis/trans isomerase EPVH; Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4; Peptidyl-prolyl cis-trans isomerase PIN4; Peptidyl-prolyl cis/trans isomerase EPVH; PIN4_HUMAN; PPIase Pin4; Protein (peptidylprolyl cis/trans isomerase) NIMA interacting; 4 (parvulin); Rotamase Pin4; anti-PIN4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PIN4 (Tyr122) Antibody detects endogenous levels of PIN4 only when phosphorylated at Tyr122. Tissue Specificity: Isoform 2 is much more stable than isoform 1 (at protein level). Ubiquitous. Isoform 1 and isoform 2 are expressed in kidney, liver, blood vessel, brain, mammary gland, skeletal muscle, small intestine and submandibularis. Isoform 1 transcripts are much more abundant than isoform 2 in each tissue analyzed.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PIN4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human PIN4 around the phosphorylation site of Tyr122.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Isoform 1 phosphorylation occurs both in the nucleus and the cytoplasm. Isoform 1 phosphorylation at Ser-19 does not affect its PPIase activity but is required for nuclear localization, and the dephosphorylation is a prerequisite for the binding to DNA. The unphosphorylated isoform 1 associates with the pre-rRNP complexes in the nucleus.Isoform 2 is sumoylated with SUMO2 and SUMO3.
Subunit Structure	Isoform 1 is found in pre-ribosomal ribonucleoprotein (pre-rRNP) complexes.
Similarity	The PPIase domain enhances mitochondrial targeting.Belongs to the PpiC/parvulin rotamase family. PIN4 subfamily.
Subcellular Location	Nucleus>Nucleolus. Cytoplasm>Cytoskeleton>Spindle. Cytoplasm. Note: Colocalizes in the nucleolus during interphase and on the spindle apparatus during mitosis with NPM1.Mitochondrion. Mitochondrion matrix. Note: Imported in a time- and membrane potential-dependent manner to the mitochondrial matrix, but without concomitant processing of the protein. Directed to mitochondria by a novel N-terminal domain that functions as non-cleavable mitochondrial targeting peptide.

Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohiostchemistry)
Staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
At 1/100 staining Rat colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PIN4 antibody	Isoform 1 is involved as a ribosomal RNA processing factor in ribosome biogenesis. Binds to tightly bent AT-rich stretches of double-stranded DNA.Isoform 2 binds to double-stranded DNA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	282847476
NCBI GeneID	5303
NCBI Accession #	NP_001164218.1
NCBI GenBank Nucleotide #	NM_001170747.1
UniProt Accession #	Q9Y237; Q0D2H3; Q3MHV0; Q52M21; Q5HYW6; Q6IRW4; A8E0G6; B3KXM0; F5H1P5
Molecular Weight	13,810 Da
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 isoform 2
NCBI Official Synonym Full Names	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
NCBI Official Symbol	PIN4
NCBI Official Synonym Symbols	EPVH; PAR14; PAR17
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase NIMA-interacting 4; hEPVH; hPar14; hPar17; PPIase PIN4; parvulin-14; parvulin-17; rotamase PIN4; eukaryotic parvulin homolog; peptidyl-prolyl cis-trans isomerase Pin4; peptidyl-prolyl cis/trans isomerase EPVH
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4
UniProt Gene Name	**PIN4**
UniProt Synonym Gene Names	Par14; hPar14; Par17; hPar17; PPIase Pin4; hEPVH
UniProt Entry Name	PIN4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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