

PIN1 Rabbit mAb

Catalog No: #52506



Package Size: #52506-1 50ul #52506-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

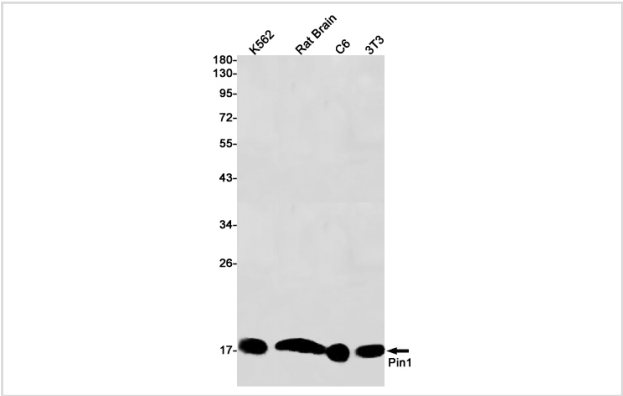
Description

Product Name	PIN1 Rabbit mAb
Clone No.	S06-4H6
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB ICC/IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human Pin1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	DOD; UBL5
Accession No.	Swiss-Prot:Q13526GeneID:5300
Uniprot	Q13526
GeneID	5300
Calculated MW	Calculated MW: 18 kDa; Observed MW: 18 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

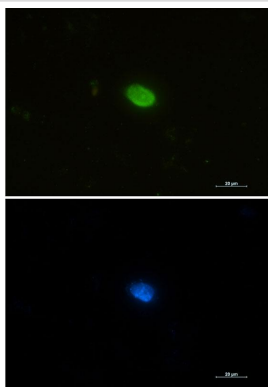
Application Details

WB 1:500-1000
IF 1:50 - 200

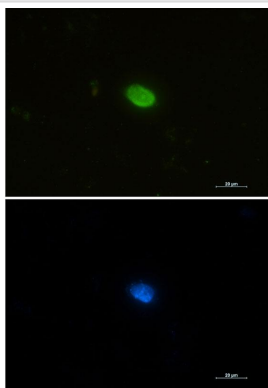
Images



Western blot detection of Pin1 in K562,Rat Brain,C6,3T3 cell lysates using Pin1 Rabbit mAb(1:1000 diluted).Predicted band size:18kDa.Observed band size:18kDa.



Immunocytochemistry analysis of PIN1 (green) in 293 using PIN1 antibody, and DAPI (blue).



Immunocytochemistry analysis of PIN1 (green) in 293 using PIN1 antibody, and DAPI (blue).

Background

Swiss-Prot Acc.Q13526. Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs. By inducing conformational changes in a subset of phosphorylated proteins, acts as a molecular switch in multiple cellular processes (PubMed:21497122, PubMed:22033920, PubMed:23623683). Displays a preference for acidic residues located N-terminally to the proline bond to be isomerized. Regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Down-regulates kinase activity of BTK (PubMed:16644721). Can transactivate multiple oncogenes and induce centrosome amplification, chromosome instability and cell transformation. Required for the efficient dephosphorylation and recycling of RAF1 after mitogen activation (PubMed:15664191). Binds and targets PML and BCL6 for degradation in a phosphorylation-dependent manner (PubMed:17828269). Acts as a regulator of JNK cascade by binding to phosphorylated FBXW7, disrupting FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation: degradation of FBXW7 leads to subsequent stabilization of JUN (PubMed:22608923). May facilitate the ubiquitination and proteasomal degradation of RBBP8/CtIP through CUL3/KLHL15 E3 ubiquitin-protein ligase complex, hence favors DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed:23623683, PubMed:27561354).

Note: This product is for in vitro research use only