ARG55420
anti-Pin 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Pin 1
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	855CT1.7.5
Isotype	IgG1
Target Name	Pin 1
Species	Human
Immunogen	Purified His-tagged Human Pin1 protein.
Conjugation	Un-conjugated
Alternate Names	UBL5; PPIase Pin1; DOD; Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1; EC 5.2.1.8; Rotamase Pin1; Peptidyl-prolyl cis-trans isomerase Pin1

Application Instructions

Application table

Application	Dilution
IHC-P	1:25
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse brain

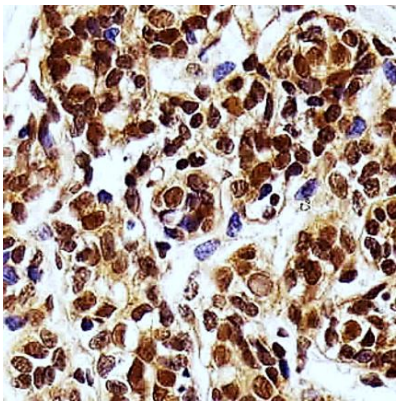
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

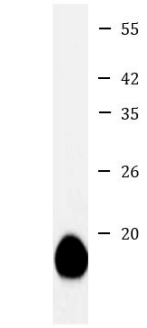
Database links	GeneID: 23988 Mouse GeneID: 5300 Human Swiss-port # Q13526 Human Swiss-port # Q9QUR7 Mouse
Gene Symbol	PIN1
Gene Full Name	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
Background	Peptidyl-prolyl cis/trans isomerases (PPIases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This gene encodes one of the PPIases, which specifically binds to phosphorylated ser/thr-pro motifs to catalytically regulate the post-phosphorylation conformation of its substrates. The conformational regulation catalyzed by this PPIase has a profound impact on key proteins involved in the regulation of cell growth, genotoxic and other stress responses, the immune response, induction and maintenance of pluripotency, germ cell development, neuronal differentiation, and survival. This enzyme also plays a key role in the pathogenesis of Alzheimer's disease and many cancers. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011]
Function	Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs in a subset of proteins, resulting in conformational changes in the proteins. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Down-regulates kinase activity of BTK. 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. Binds and targets PML and BCL6 for degradation in a phosphorylation-dependent manner. 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. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Neuroscience antibody
Calculated Mw	18 kDa
PTM	Phosphorylation at Ser-71 by DAPK1 results in inhibition of its catalytic activity, nuclear localization, and its ability to induce centrosome amplification, chromosome instability and cell transformation.
Cellular Localization	Nucleus. Nucleus speckle. Cytoplasm. Note=Colocalizes with NEK6 in the nucleus. Mainly localized in the nucleus but phosphorylation at Ser-71 by DAPK1 results in inhibition of its nuclear localization

Images



ARG55420 anti-Pin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast section stained with ARG55420 anti-Pin 1 antibody at 1:25 dilution.



Mouse brain

ARG55420 anti-Pin 1 antibody WB image

Western blot: 35 µg of Mouse brain lysate stained with ARG55420 anti-Pin 1 antibody.