

ARG10687 anti-Pin 1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Chicken Polyclonal antibody recognizes Pin 1
Tested Reactivity	Hu, Ms, Rat, Cow, Hrs, Pig
Predict Reactivity	Chk
Tested Application	ICC/IF, IHC-Fr, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Target Name	Pin 1
Immunogen	Recombinant full length Pin-1 purified from E. coli.
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
	ICC/IF	1:500 - 1:1000
	IHC-Fr	1:500 - 1:1000
	WB	1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

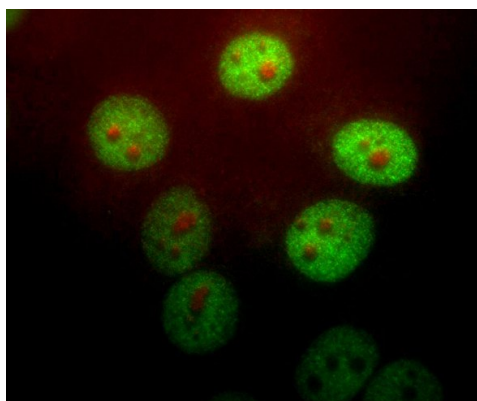
Properties

Form	Liquid
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% 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]
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.

Images



ARG10687 anti-Pin 1 antibody ICC/IF image

Immunocytochemistry: HeLa cells stained with ARG10687 anti-Pin 1 antibody at 1:1000 dilution (green) and co-stained with a monoclonal 38F3 to fibrillarin (red). Pin-1 stains the nuclear matrix and, much more faintly, the cytoplasm. The fibrillarin antibody marks nucleoli.

ARG10687 anti-Pin 1 antibody WB image



Western blot: Whole HeLa cell homogenate stained with ARG10687 anti-Pin 1 antibody at 1:10000 dilution. A prominent band running with an apparent SDS-PAGE molecular weight of ~21 kDa corresponds to Pin1.