

## Product datasheet for **AP20127SU-N**

### **PIN1 Chicken Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/10,000 <b>Immunofluorescence:</b> 1/1,000 <b>Immunocytochemistry:</b> 1/5,000 (ABC or other enzyme linked immunocytochemical procedures).
Reactivity:	Human
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Recombinant full length Pin-1 purified from <i>E. coli</i> .
Specificity:	PIN1
Formulation:	PBS with 10mM Sodium Azide as a preservative. State: Serum State: Liquid Whole Serum
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C to -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
Database Link:	<a href="#">Entrez Gene 5300 Human Q13526</a>



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**Background:**

Pin-1 is a the peptidylprolyl cis/trans isomerase enzyme which is responsible, as its name suggests, for flipping the proline ring from the cis to the trans conformation. Pin1 has been implicated in tau pathologies that underlie Alzheimer's Disease. Pin1 binds to tau phosphorylated specifically on the Thr231-Pro site and induces conformational changes in tau. Such conformational changes can directly restore the ability of phosphorylated Tau to bind microtubules and promote microtubule assembly and/or facilitate tau dephosphorylation. Pin1 expression inversely correlates with the predicted neuronal vulnerability in normally aged brain and also with actual neurofibrillary degeneration in AD brain. Pin1 could be pivotal for maintenance of normal neuronal function and preventing age-dependent neurodegeneration. It is also heavily upregulated in tumor cells, so that antibodies to this protein can be used as tumor markers.

**Synonyms:**

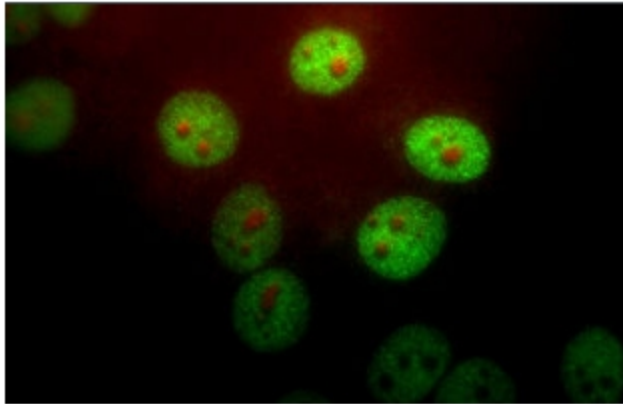
PIN-1

**Protein Families:**

Druggable Genome

**Protein Pathways:**

RIG-I-like receptor signaling pathway

**Product images:**

AP20127SU-N PIN1 antibody staining of HeLa cells at 1/1,000 dilution (Green). Fibrillarin antibody (Red). Pin-1 stains the nuclear matrix and, much more faintly, the cytoplasm. The Fibrillarin antibody marks nucleoli.