

## Product datasheet for **AP55710PU-N**

### **PIM1 pTyr309 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>Western blot:</b> 1:500~1:1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 309(A-A-V(p)-W-S) derived from Human Pim-1 (KLH-conjugated)
Specificity:	The antibody detects endogenous levels of Pim-1 only when phosphorylated at tyrosine 309.
Formulation:	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	45 kDa
Gene Name:	Pim-1 proto-oncogene, serine/threonine kinase
Database Link:	<a href="#">Entrez Gene 5292 Human P11309</a>



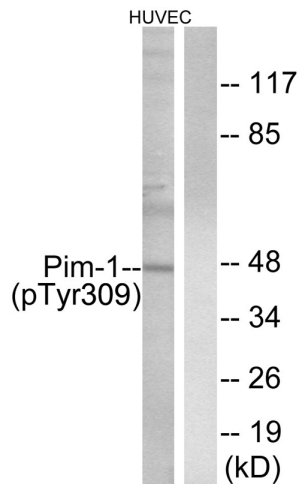
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**Background:**

Proto-oncogene with serine/threonine kinase activity involved in cell survival and cell proliferation and thus providing a selective advantage in tumorigenesis. Exerts its oncogenic activity through: the regulation of MYC transcriptional activity, the regulation of cell cycle progression and by phosphorylation and inhibition of proapoptotic proteins (BAD, MAP3K5, FOXO3). Phosphorylation of MYC leads to an increase of MYC protein stability and thereby an increase of transcriptional activity. The stabilization of MYC exerted by PIM1 might explain partly the strong synergism between these two oncogenes in tumorigenesis.

**Synonyms:**

Pim-1

**Product images:**

Western blot analysis of extracts from HUVEC cells treated with PMA using Pim-1 (Phospho-Tyr309) Antibody. The lane on the right is treated with the antigen-specific peptide.