

Product datasheet for **AP06527PU-S**

IRAK (IRAK1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 350-400 of Human IRAK1
Specificity:	This antibody detects endogenous levels of IRAK1 protein. (region surrounding Thr381)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 76 kDa
Gene Name:	interleukin 1 receptor associated kinase 1
Database Link:	Entrez Gene 3654 Human P51617



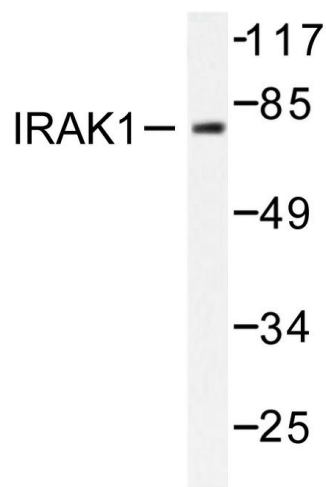
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Background:

Three structurally related ligands for IL-1Rs have been described. These include two agonists, IL-1alpha and IL-1beta, and a specific receptor antagonist, IL-1Ra. Two distinct receptors designated IL-1RI and IL-1RII have been identified, each of which belong to the Ig superfamily. The preponderance of evidence suggests IL-1RI to be the functional IL-1 receptor. Binding of IL-1 to its cognate receptor results in the activation of the NFkappaB signaling pathway. The IL-1-dependent kinase termed IRAK (for IL-1 receptor-associated kinase) co-immunoprecipitates with activated IL-1RI and has been implicated as an upstream mediator of NFkappaB activation. Additional support for this assertion comes from the fact that a related Drosophila protein, Pelle, is a known upstream activator of Dorsal, the Drosophila homolog of NFkappaB.

Synonyms:

IRAK-1, IRAK

Product images:

Western blot (WB) analysis of IRAK1 antibody in extracts from HeLa cells.