

## Product datasheet for AP20311PU-N

## **IRAK (IRAK1) Rabbit Polyclonal Antibody**

**Product data:** 

**Product Type: Primary Antibodies** 

**Applications:** IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Reactivity: Human Host: Rabbit Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of IRAK1 protein.

Formulation: Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction

Concentration: 1.0 mg/ml

**Purification:** Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)

Conjugation: Unconjugated

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage:

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



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

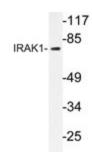
Three structurally related ligands for IL-1Rs have been described. These include two agonists, IL-1 $\alpha$  and IL-1 $\beta$ , and a specific receptor antagonist, IL-1R $\alpha$ . Two distinct receptors designated IL-1RI and IL-1RII have been identified, each of which belong to the Ig superfamily. 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 NF $\kappa$ B 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 NF $\kappa$ B 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 NF $\kappa$ B.

Synonyms: IRAK-1, IRAK

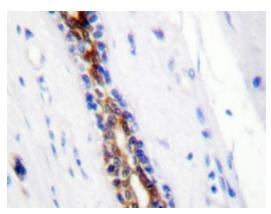
**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**Protein Pathways:** Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway

## **Product images:**



Western blot analysis of IRAK1 antibody (Cat.-No.: AP20311PU-N) in extracts from NIH/3T3 cells.



Immunohistochemistry analyzes of IRAK1 antibody (Cat.-No.: AP20311PU-N) in paraffinembedded human breast carcinoma tissue.