

## Product datasheet for **TA305934**

### IRAK (IRAK1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, IP: 2 - 4 ug per sample, ICC: 10 ug/g/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	IRAK antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human IRAK.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Antibody is DEAE purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 1 receptor associated kinase 1
Database Link:	<a href="#">NP_001020413</a> <a href="#">Entrez Gene 16179 Mouse</a> <a href="#">Entrez Gene 363520 Rat</a> <a href="#">Entrez Gene 3654 Human</a> <a href="#">P51617</a>

**Background:** Nuclear factor kappa B (NF-kappaB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kappaB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFalpha and LPS. A serine/threonine protein kinase associated with IL-1 receptor (IRAK) and its homologue mouse pelle-like protein kinase (mPLK) were identified recently. IRAK is associated with the IL-1 receptor subunits IL-1RI and IL-1RAcP after IL-1 binding and serves as a signaling molecule to mediate IL-1 response. IRAK mediates a signaling cascade leading to NF-kappaB activation by members in IL-1 family including IL-1 and a novel cytokine IL-18 (also termed IGIF).



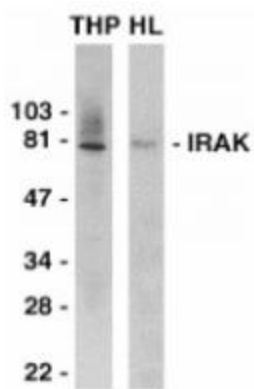
[View online >](#)

**Synonyms:** IRAK; pelle

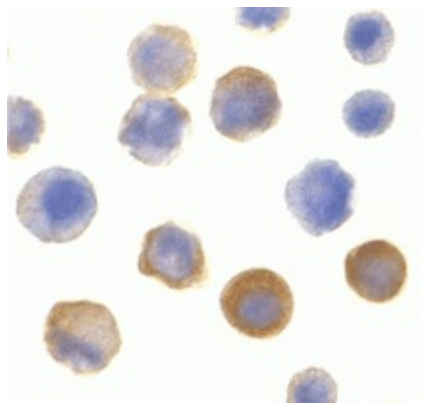
**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

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

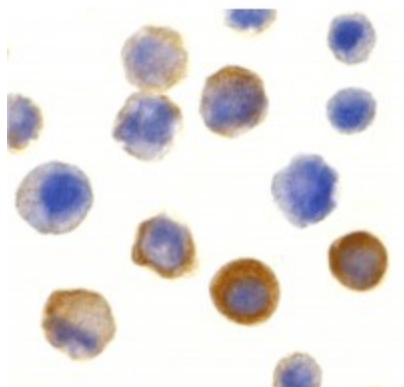
**Product images:**



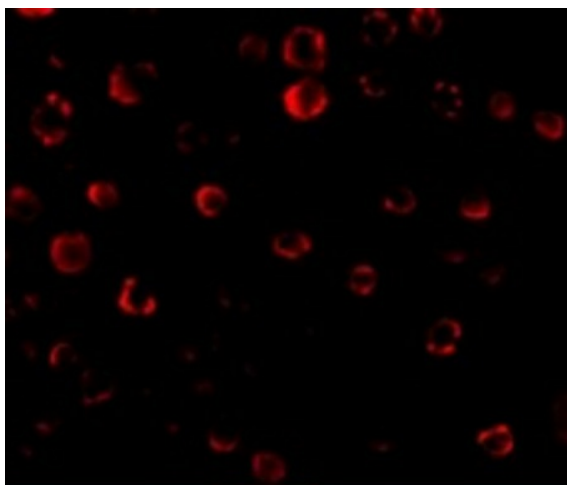
Western blot analysis of IRAK in THP-1 (THP) and HeLa (HL) whole cell lysates with IRAK antibody at 1:2000



Immunohistochemistry of IRAK in HeLa cells with IRAK antibody at 10 ug/ml.



Immunocytochemistry of IRAK in HeLa cells with IRAK antibody at 10 ug/mL.



Immunofluorescence of IRAK in HeLa cells with IRAK antibody at 20 ug/mL.