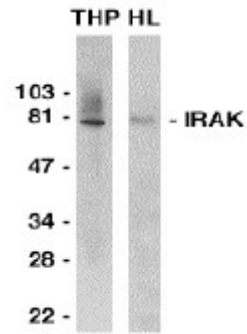


Polyclonal Antibody to IRAK (aa 700-712) - Aff - Purified

Catalog No.:	SP6298P
Quantity:	50 µg
Concentration:	0.2 mg/ml
Background:	Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFα and LPS. A serine/threonine protein kinase associated with IL-1 receptor (IRAK) and its homologue mouse pelle-like protein kinase (mPLK) was recently identified (1, 2). 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 (3). IRAK mediates a signaling cascade leading to NF-κB activation by members in IL-1 family including IL-1 and a novel cytokine IL-18 (also termed IGIF) (1, 4).
Host:	Rabbit
Immunogen:	Peptide corresponding to amino acids 700 to 712 of human IRAK Remarks: GenBank accession no. P51617. Peptide available as SP6298CP.
Format:	State: Liquid purified Ig fraction Buffer System: 1x PBS containing 0.05 % sodium azide
Applications:	Western blot (1.0 µg/ml; a band of 80 kDa will be detected). Immunoprecipitation (2.0-4.0 µg per sample). Positive Control: THP-1, HeLa whole cell lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	SP6298P recognises an 80 kD serin/threonine protein kinase designated IRAK. It has no cross response to IRAK2. Species: Human, Mouse, Rat. Other species not tested.
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Cao Z. et al. Science; 271,1128 (1996). 2. Trofimova M. et al. J. Bio. Chem. 271,17609 (1996). 3. Jianing H. et al. Proc. Natl. Acad. Sci. USA 94, 12829 (1997). 4. Robinson D. et al. Immunity 7, 571 (1997).

Pictures:

Western blot analysis of IRAK in THP-1 (THP) and HeLa (HL) whole cell lysates with anti-IRAK (CT) at 0.5 µg/ml



Immunocytochemistry of IRAK in HeLa cells with anti-IRAK-1 (CT) at 10 µg/ml

