

**AP55759PU-S****Polyclonal Antibody to IRAK1 pSer376 - Aff - Purified**

<b>Alternate names:</b>	IRAK, IRAK-1, Interleukin-1 receptor-associated kinase 1
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	IRAK1 encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. IRAK1 is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B.
<b>Uniprot ID:</b>	<a href="#">P51617</a>
<b>NCBI:</b>	<a href="#">NP_001020413.1</a>
<b>GeneID:</b>	<a href="#">3654</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Peptide sequence around phosphorylation site of Serine 376(Q-S-S(p)-M-V) derived from Human IRAK1 (KLH-conjugated)
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity chromatography using epitope-specific peptide <b>Buffer System:</b> 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
<b>Applications:</b>	<b>Immunohistochemistry on paraffin sections:</b> 1:50~1:100 . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	76 kDa
<b>Specificity:</b>	The antibody detects endogenous levels of IRAK1 only when phosphorylated at serine 376.
<b>Species Reactivity:</b>	<b>Tested:</b> Human
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Cao Z, Henzel WJ, Gao X. IRAK: a kinase associated with the interleukin-1 receptor. <i>Science</i> . 1996 Feb 23;271(5252):1128-31. PubMed PMID: 8599092. 2. Reichwald K, Thiesen J, Wiehe T, Weitzel J, Poustka WA, Rosenthal A, et al. Comparative sequence analysis of the MECP2-locus in human and mouse reveals new transcribed regions. <i>Mamm Genome</i> . 2000 Mar;11(3):182-90. PubMed PMID: 10723722. 3. Jensen LE, Whitehead AS. IRAK1b, a novel alternative splice variant of interleukin-1 receptor-associated kinase (IRAK), mediates interleukin-1 signaling and has prolonged stability. <i>J Biol Chem</i> . 2001 Aug 3;276(31):29037-44. Epub 2001 Jun 7. PubMed PMID: 11397809.

**Pictures:**

Immunohistochemical analysis of paraffin-embedded human brain tissue using IRAK1 (Phospho-Ser376) antibody AP55759PU-N (left) or the same antibody preincubated with blocking peptide (right).

