

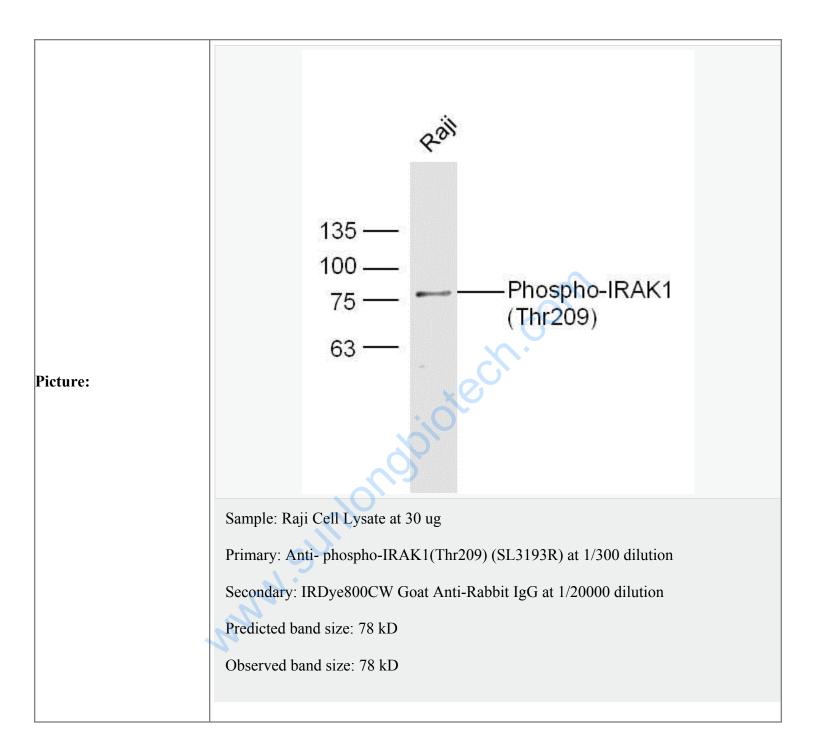
Rabbit Anti-Phospho-IRAK1 (Thr209) antibody

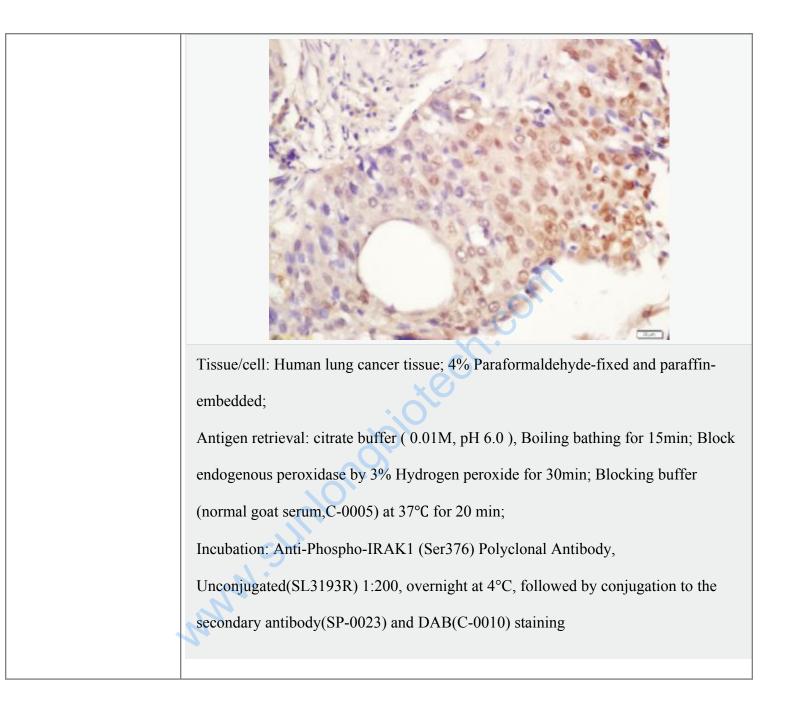
SL3193R

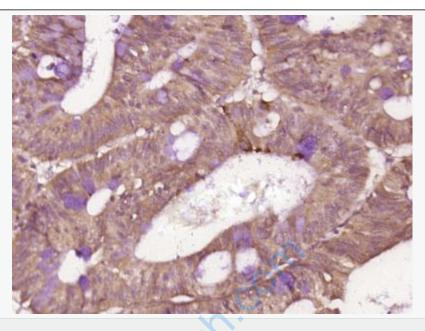
Product Name:	Phospho-IRAK1 (Thr209)
	磷酸化白介素-1受体相关激酶1抗体
Chinese Name:	
Alias:	IRAK (phospho T209); p-IRAK (phospho T209); IRAK1 (Phospho-Thr209); IRAK1 (Phospho-T209); IRAK1 (p-Thr209); Il1rak; Il1rak; Interleukin 1 receptor associated kinase 1; Interleukin 1 receptor associated kinase 1; Interleukin 1 receptor associated kinase 2; Interleukin-1 receptor-associated kinase 1; IRAK; IRAK-1; IRAK1; IRAK1; IRAK1_HUMAN; IRAK2; IRAK2; mPLK; mPLK; Pelle; Pelle; Pelle homolog; Pelle-like protein kinase; Plpk.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Rat,
Applications:	WB=1:500-2000IHC-P=1:400-800Flow-Cyt=0.2µg /Test (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	78kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human IRAK1 around the phosphorylation site of Thr209:RG(p-T)HN
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

	This gene 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. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Function: Serine/threonine-protein kinase that plays a critical role in initiating innate immune response against foreign pathogens. Involved in Toll-like receptor (TLR) and IL-1R signaling pathways. Is rapidly recruited by MYD88 to the receptor-signaling complex upon TLR activation. Association with MYD88 leads to IRAK1 phosphorylation by IRAK4 and subsequent autophosphorylation and kinase activation. Phosphorylates E3 ubiquitin ligases Pellino proteins (PELI1, PELI2 and PELI3) to promote pellino-mediated polyubiquitination of IRAK1. Then, the ubiquitin-binding domain of IKBKG/NEMO binds to polyubiquitinated IRAK1 bringing together the IRAK1-
Product Detail:	MAP3K7/TAK1 activates IKKs (CHUK/IKKA and IKBKB/IKKB) leading to NF- kappa-B nuclear translocation and activation. Alternatively, phosphorylates TIRAP to promote its ubiquitination and subsequent degradation. Phosphorylates the interferon regulatory factor 7 (IRF7) to induce its activation and translocation to the nucleus, resulting in transcriptional activation of type I IFN genes, which drive the cell in an antiviral state. When sumoylated, translocates to the nucleus and phosphorylates STAT3
Froduct Detail:	Subunit: Homodimer. Interacts with TOLLIP; this interaction occurs in the cytosol prior to receptor activation. Interacts with MYD88; this interaction recruits IRAK1 to the stimulated receptor complex. Interacts with IL1RL1. Interacts with IRAK1BP1. Associates with TRAF6, PELI1 and IRAK4; this complex recruits MAP3K7/TAK1, TAB1 and TAB2 to mediate NF-kappa-B activation. Interacts (when polyubiquitinated) with IKBKG/NEMO.
	Subcellular Location: Cytoplasm. Nucleus. Note=Translocates to the nucleus when sumoylated.
	Tissue Specificity: Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.
	Post-translational modifications: Following recruitment on the activated receptor complex, phosphorylated on Thr-209, probably by IRAK4, resulting in a conformational change of the kinase domain, allowing further phosphorylations to take place. Thr-387 phosphorylation in the activation loop is required to achieve full enzymatic activity. Polyubiquitinated after cell stimulation with IL-1-beta by PELI1, PELI2 and PELI3. Polyubiquitination occurs with polyubiquitin chains linked through 'Lys-63'. Ubiquitination promotes interaction with NEMO/IKBKG. Also sumoylated; leading to

	nuclear translocation.
	Similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 death domain. Contains 1 protein kinase domain.
	SWISS: P51617
	Gene ID: 3654 Database links: Entrez Gene: 3654Human Entrez Gene: 16179Mouse Entrez Gene: 363520Rat Omim: 300283Human SwissProt: P51617Human SwissProt: Q62406Mouse
	Database links:
	Entrez Gene: 3654Human
	Entrez Gene: 16179 Mouse
	Entrez Gene: 363520Rat
	Omim: 300283Human
	SwissProt: P51617Human
	SwissProt: Q62406Mouse
	<u>Unigene: 522819</u> Human
	Unigene: 38241Mouse
	Unigene: 22238Rat
•	Important Note:
	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.







Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IRAK1 (Thr209)) Polyclonal Antibody, Unconjugated (SL3193R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

