

## Product datasheet for **AP07319PU-N**

### IRAK4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunocytochemistry.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1 - 2 µg/ml.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide
Specificity:	This antibody reacts to a synthetic peptide corresponding to amino acids at the carboxy terminus of IRAK-4.
Formulation:	Phosphate buffered saline, containing 0.02% sodium azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C to -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 1 receptor associated kinase 4
Database Link:	<a href="#">Entrez Gene 51135 Human</a> <a href="#">Q9NWZ3</a>



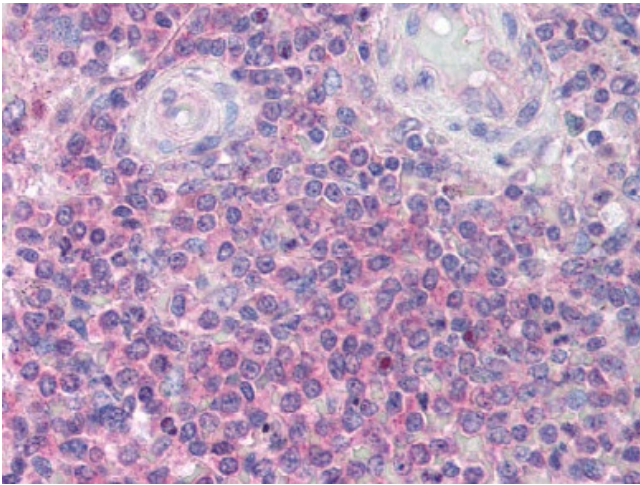
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**Background:**

IRAK4, an IRAK type protein kinase, is a signal transducer for the immune response Toll-like receptor and interleukin-1 (IL-1) receptor signaling cascades. IRAK4 has auto- and cross-phosphorylation kinase activity and has been shown to phosphorylate and activate IRAK1. Additionally, IRAK4 interacts with IRAK1 and TRAF6 in an IL-1-dependent manner, and overexpression of IRAK4 can activate NF-kappaB as well as mitogen-activated protein (MAP) kinase pathways. IRAK4 (-/-) mice are resistant to a lethal dose of lipopolysaccharide and are severely impaired in their responses to viral and bacterial challenges. At least two mRNA transcripts have been reported: 3.0- and 4.4-kb. IRAK4, also referred to as NY-REN-64, was first identified as an oncofetus antigen in a screen of renal tumors.

**Synonyms:**

IRAK-4, NY-REN-64

**Product images:**

Spleen: Formalin-Fixed Paraffin-Embedded (FFPE)