

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRAK3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IRAK3 aa 1-596 Accession # Q9Y616
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IRAK3 (Interleukin-1 receptor-associated kinase 3; also IRAK-M) is a 68-70 kDa member of the Pelle subfamily, TKL Ser/Thr protein kinase family of proteins. IRAK3 has limited expression, being mainly found in macrophages, eosinophils and respiratory epithelium, including type II alveolar cells. IRAK3 is a negative regulator of TLR signaling. Following TLR activation, it appears to form a complex with MyD88, IRAK1 and IRAK4 on the TLR cytoplasmic domain. This effectively blocks IRAK1/4 phosphorylation and inhibits NFκB and MAPK downstream activation. Human IRAK3 is 596 amino acids (aa) in length, contains one death domain (aa 41-106) and a nonfunctional protein kinase domain (aa 171-443). There are six Ser phosphorylation sites. There is one splice variant with a deletion of aa 45-105.

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