

Datasheet: AHP1098

Description:	GOAT ANTI IRAK4 (N-TERMINAL)
Specificity:	IRAK4 (N-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			1/32000
Immunoprecipitation			■	
Western Blotting	■			1 - 3ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse Based on sequence similarity, is expected to react with:Chimpanzee N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human IRAK4 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Peptide sequence NKPITPSTYVRC corresponding to the N-terminal of IRAK4 (NP_057207.1).

**External Database
Links**

UniProt:

[Q9NWZ3](#) [Related reagents](#)

Entrez Gene:

[51135](#) IRAK4 [Related reagents](#)

Specificity

Goat anti IRAK4 antibody detects an epitope within the N-terminal (NT) region of integrin-1 receptor-associated kinase 4 (IRAK4). IRAK4 has a molecular weight of ~50 kDa, and is an important mediator in the signal transduction of Toll-like receptor (TLR) and interleukin-1 (IL-1) receptor family members. IRAK4 functions in this signal transduction pathway by binding to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signalling cascades leading to transcriptional up-regulation and mRNA stabilization.

IRAK4 is a key activator of TLR-mediated signal transductions and has crucial roles in innate immune responses. It is expressed by the liver, kidneys and skeletal muscle.

Western Blotting

AHP1098 detects a band of approximately 50kDa in A431 and HeLa cell lysates. A minimum incubation time of 1 hour is recommended with this antibody.

References

1. Suzuki, N. *et al.* (2002) IRAK-4 as the central TIR signaling mediator in innate immunity. [Trends Immunol. 10: 503-506.](#)
2. Suzuki, N. and Saito, T. (2006) IRAK-4- a shared NF-kappaB activator in innate and acquired immunity. [Trends Immunol. 27: 566-572.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10058 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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