

Datasheet for 600-401-954**IRAK-M Antibody****Overview**

Description:	Anti-IRAK-M (RABBIT) Antibody - 600-401-954
Item No.:	600-401-954
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	IRAK-M (Interleukin-1 receptor-associated kinase M). Interleukin-1 (IL-1) and lipopolysaccharide (LPS) induce cellular response through IL-1 receptor (IL-1R) and Toll like receptors (TLR). Through IL-1/Toll receptors, IL-1 receptor-associated kinase (IRAK and IRAK2) mediates the activation of NF-kB (1,2); a pivotal transcription factor mediating inflammatory and immune response. A novel member in the IRAK/Pelle family was recently identified and designated IRAK-M (3). IRAKs associate with IL-1/Toll receptors after IL-1 or LPS stimulation and the dominant negative mutants of IRAKs inhibit IL-1 or LPS induced NF-kB activation. Members of the IRAK/Pelle family play a central role in IL-1R/TLR mediated inflammatory responses to cytokine IL-1 and LPS. Anti-IRAK-M is ideal for investigators involved in Cytokines and Growth Factor research.
Synonyms:	IL 1 receptor associated kinase M antibody, Interleukin 1 Receptor Associated Kinase 3 antibody, Interleukin 1 Receptor Associated Kinase M antibody, IRAK 3 antibody, IRAK M antibody, IRAK3 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IRAK3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	IRAK-M Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids from the c-terminus of human IRAK-M.
Purity/Specificity:	Anti-IRAK-M Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with IRAK-M with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with IRAK-M from other sources has not been determined. Antibody has no cross to IRAK or IRAK2.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q9Y616• NCBI - 5225378• GeneID - 73914

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IRAK-M Antibody is tested with ELISA, Immunohistochemistry, Immunofluorescence, and western blot. Expect a band approximately 68 kDa in size corresponding to IRAK-M protein by western blotting in the appropriate cell lysate or extract. Western Blot tested in mouse and rat samples; Immunohistochemistry in human and rat samples, and Immunofluorescence in mouse and rat samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IF:	10µg/mL
IHC:	1:300 - 1:1000
WB:	1:500 - 1:2,000

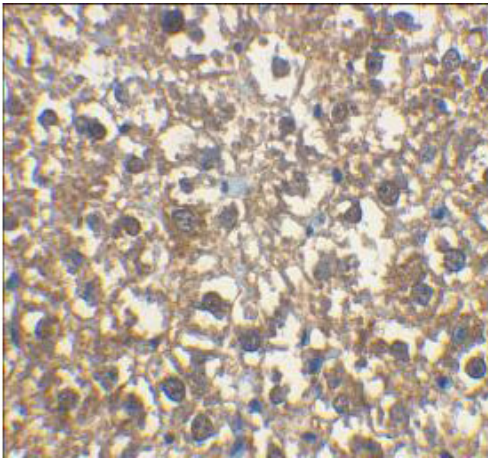
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

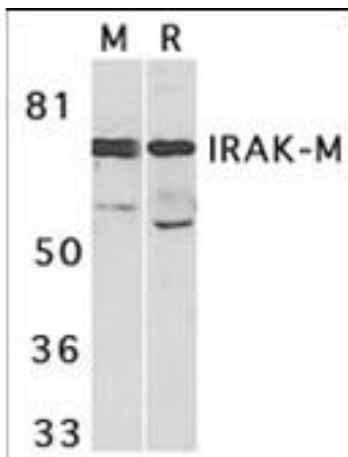
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry using Rockland's Affinity Purified anti-IRAK-M antibody shows staining of IRAK-M in rat liver cells. Paraffin embedded formalin fixed tissue was reacted with the primary antibody diluted to 1:500.



Western Blot

Western blot using Rockland's affinity purified anti-IRAK-M antibody shows detection of IRAK-M in mouse spleen (M) and rat liver (R) tissue lysates. The membrane was probed with the primary antibody diluted to at 1:1000.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.