

Datasheet for 600-401-952**IRAK2 Antibody****Overview**

Description:	Anti-IRAK2 (RABBIT) Antibody - 600-401-952
Item No.:	600-401-952
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	IRAK-2 (Interleukin-1 receptor-associated kinase 2). The pro-inflammatory cytokine IL-1 induces cellular response through two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RAcP). IL-1 receptor-associated kinase (IRAK) mediates activation of NF-κB, which is a pivotal transcription factor mediating inflammatory and immune response. A novel member in the IRAK/Pelle family was recently identified and designated IRAK2 (1). Both IRAK and IRAK2 recruit to the subunits of the IL-1R complex after IL-1 binding and lead to NF-κB activation. IRAKs also associate with Toll like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF-κB activation (2,3). Members of the IRAK/Pelle family play a central role in IL-1R and TLR mediated inflammatory response. IRAK2 is expressed in a variety of human tissues.
Synonyms:	Interleukin 1 receptor associated kinase like 2 antibody, Interleukin 1 receptor associated kinase 2 antibody, IRAK-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IRAK2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human IRAK-2 protein.
Purity/Specificity:	This affinity-purified antibody is directed against human IRAK-2 protein. The product is affinity chromatography purified via peptide column. A BLAST analysis was used to suggest cross reactivity with IRAK-2 protein from human sources based on 100% homology with the immunizing sequence. No cross reactivity occurs against IRAK-1. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 58530886 • UniProtKB - O43187 • GeneID - 3656

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	This affinity-purified antibody has been tested for use in ELISA, immunocytochemistry, immunofluorescence, and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 65 kDa in size corresponding to IRAK-2 protein by western blotting in the appropriate cell lysate or extract.
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:	10 µg/mL
IHC:	1:300 - 1:600
WB:	1:500 - 1:1,000

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

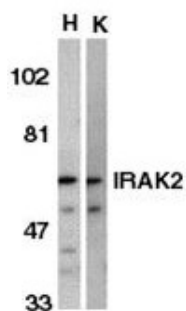
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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 IgG fraction of anti-IRAK-2 antibody shows staining of IRAK-2 in HeLa cells. The cells were fixed with paraformaldehyde and reacted with the primary antibody diluted to 1:500.



Western Blot

Western blot using Rockland's affinity purified anti-IRAK-2 antibody shows detection of IRAK in HeLa (H) and K562 (K) whole cell lysates. The membrane was probed with the primary antibody diluted to 1:500.

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.