Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-I08

Receptor-interacting serine-threonine kinase 3 Antibody

Overview

Description:	Anti-Receptor-interacting serine-threonine kinase 3 (RABBIT) Antibody - 600-401-I08
Item No.:	600-401-I08
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-Receptor-interacting serine-threonine kinase 3 antibody detects human RIP3. RIP3 is a novel member of RIP Ser/Thr kinase family. It is a potent inducer of apoptosis and is an important component of TNFR1 signaling complex. RIP3 consists of an N-terminal RIP-like-Kinase domain and a unique, non-homologous C-terminus responsible for caspase activation and apoptosis induction. RIP3 is expressed in multiple tissues including hematopoietic cells and plays a functional role in the regulation of apoptosis and NF-kB signaling. It is recruited to the TNFR1 signaling complex in a RIP-dependant manner where it induces apoptosis by activating caspases and/or inhibiting TNFR1-induced NF-kB activation. RIP3 negatively regulates the TLR3-Trif mediated NF-kB signaling pathway by competing with the binding of Trif to RIP1. The human RIP3 gene is localized in the chromosomal region 14q11.2. Anti-Receptor-interacting serine-threonine kinase 3 Antibody is ideal for investigators involved in apoptosis and NFkappaB research.
Synonyms:	RIP3, Receptor-interacting serine/threonine-protein kinase 3, 2.7.11.1, RIP-like protein kinase 3, Receptor-interacting protein 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RIPK3
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
Immunogen:	Receptor-interacting serine-threonine kinase 3 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human Receptor-interacting serine/threonine-protein kinase 3.
Purity/Specificity:	Anti-Receptor-interacting serine-threonine kinase 3 Antibody was purified by affinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Receptor-interacting serine-threonine kinase 3 from human and chimpanzee based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Receptor-interacting serine-threonine kinase 3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y572 • NCBI - NP_006862.2 • GeneID - 11035

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-Receptor-interacting serine-threonine kinase 3 antibody is tested for use in WB, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 56 kDa (isoform 1) and 27 kDa (isoform 2) on specific lysates. 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.
IHC:	10 µg/mL
WB:	3-7 µg/mL

Formulation

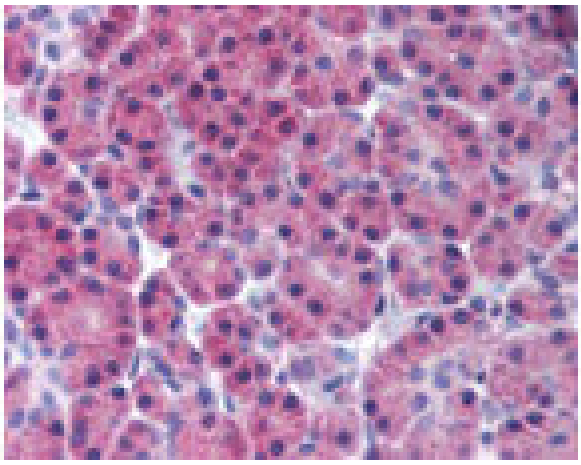
Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

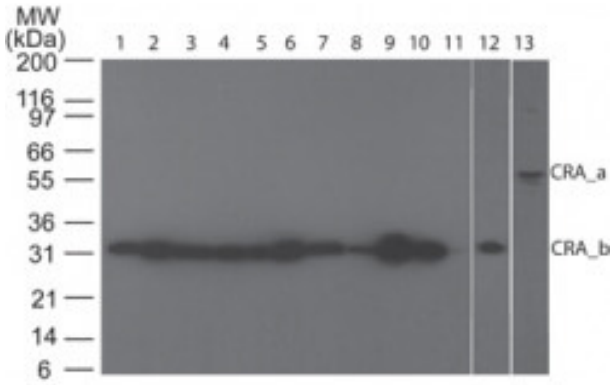
Shipping Condition:	Dry Ice

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 of Rabbit Anti-Receptor-interacting serine-threonine kinase 3 antibody. Tissue: human pancreas. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: RIP3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: RIP3 as a precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Rabbit Anti-Receptor-interacting-serine-threonine kinase 3 antibody. Lane 1: brain. Lane 2: heart. Lane 3: small intestine. Lane 4: kidney. Lane 5: liver. Lane 6: lung. Lane 7: skeletal muscle. Lane 8: stomach. Lane 9: spleen. Lane 10: ovary. Lane 11: testis. Lane 12: human Ramos cell lysate. Primary antibody: polyclonal RIP3 at 5 µg/mL for lanes 1-11 and at 7 µg/mL overnight at 4°C. Secondary antibody: Goat anti-rabbit Ig HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for RIP3. Other band(s): none.

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.