ARG54926
anti-RIPK3 / RIP3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RIPK3 / RIP3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-Fr, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RIPK3 / RIP3
Species	Mouse
Immunogen	A 14-amino acid peptide within the last 50 amino acids of murine RIPK3 / RIP3.
Conjugation	Un-conjugated
Alternate Names	Receptor-interacting serine/threonine-protein kinase 3; Receptor-interacting protein 3; RIP-3; RIP3; RIP-like protein kinase 3; EC 2.7.11.1

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
ICC/IF	20 µg/ml
IHC-Fr	Assay-dependent
IHC-P	5 µg/ml
IP	20 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control	A431 and C2C12
Observed Size	~ 57 kDa

Properties

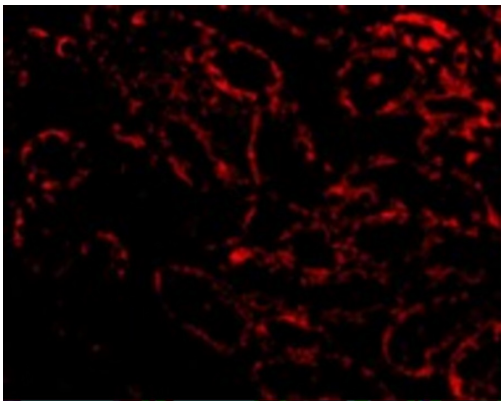
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide

Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

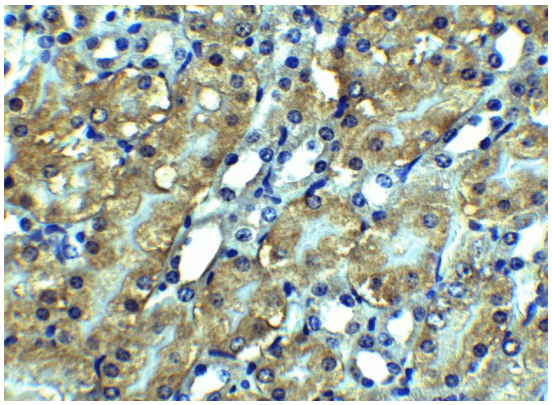
Gene Symbol	Ripk3
Gene Full Name	receptor-interacting serine-threonine kinase 3
Background	RIP3 Antibody: Certain serine/threonine protein kinases, such as ASK1, RIP, DAP, and ZIP kinases, are mediators of apoptosis. Receptor interacting proteins including RIP and RIP2/RICK mediate apoptosis induced by TNFR1 and Fas, two prototype members in the death receptor family. A novel member in the RIP kinase family was recently identified and designated RIP3. RIP3 contains N-terminal kinase domain but, unlike RIP or RIP2, lacks the C-terminal death or CARD domain. RIP3 binds to RIP and TNFR1, mediates TNFR1 induced apoptosis, and attenuates RIP and TNFR1 induced NF-κB activation. Overexpression of RIP3 induces apoptosis and NF-κB activation. The messenger RNA of RIP3 is expressed in a subset of adult tissues.
Function	Essential for necroptosis, a programmed cell death process in response to death-inducing TNF-alpha family members. Upon induction of necrosis, RIPK3 interacts with, and phosphorylates RIPK1 and MLKL to form a necrosis-inducing complex. RIPK3 binds to and enhances the activity of three metabolic enzymes: GLUL, GLUD1, and PYGL. These metabolic enzymes may eventually stimulate the tricarboxylic acid cycle and oxidative phosphorylation, which could result in enhanced ROS production. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30344 Necrosome Antibody Panel Related products: RIPK3 antibodies; RIPK3 Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: A non-autophatic role of Atg9a in necrosis and developmental bone formation RIP1 activation and pathogenesis of NASH Ripoptosome & Necrosome antibody panels are launched
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	57 kDa
PTM	RIPK1 and RIPK3 undergo reciprocal auto- and trans-phosphorylation. Phosphorylation of Ser-199 plays a role in the necroptotic function of RIPK3. Phosphorylation at Ser-227 is required for binding MLKL. Polyubiquitinated with 'Lys-48' and 'Lys-63'-linked chains by BIRC2/c-IAP1 and BIRC3/c-IAP2, leading to activation of NF-kappa-B.

Images



ARG54926 anti-RIPK3 / RIP3 antibody ICC/IF image

Immunofluorescence: Rat kidney cells stained with ARG54926 anti-RIPK3 / RIP3 antibody at 20 µg/ml dilution.



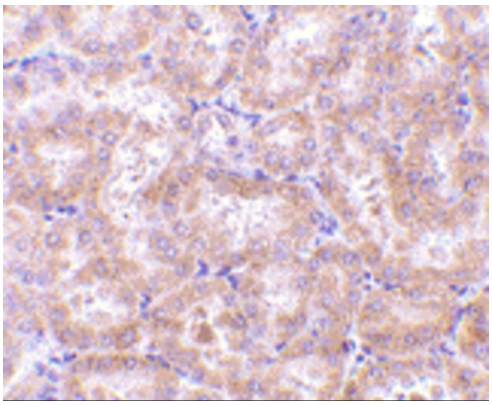
ARG54926 anti-RIPK3 / RIP3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 hour at RT. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG54926 anti-RIPK3 / RIP3 antibody at 2.5 µg/ml dilution, overnight at 4°C. Counter stained with Hematoxylin.

A431

ARG54926 anti-RIPK3 / RIP3 antibody WB image

Western blot: 15 µg of A431 cell lysate stained with ARG54926 anti-RIPK3 / RIP3 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.



ARG54926 anti-RIPK3 / RIP3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney tissue. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 hour at RT. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG54926 anti-RIPK3 / RIP3 antibody at 5 µg/ml dilution, overnight at 4°C. Counter stained with Hematoxylin.

C2C12

ARG54926 anti-RIPK3 / RIP3 antibody WB image

Western blot: 15 µg of C2C12 cell lysate stained with ARG54926 anti-RIPK3 / RIP3 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.