

ARG58721 anti-RIPK3 / RIP3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RIPK3 / RIP3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RIPK3 / RIP3
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-120 of Human RIPK3 / RIP3 (NP_006862.2).
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
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat lung	
Observed Size	45-70 kDa	

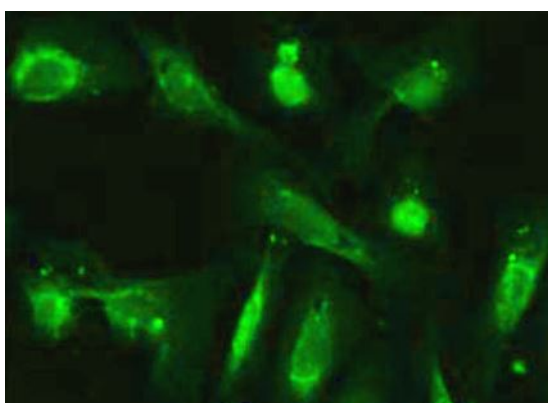
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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.

Bioinformation

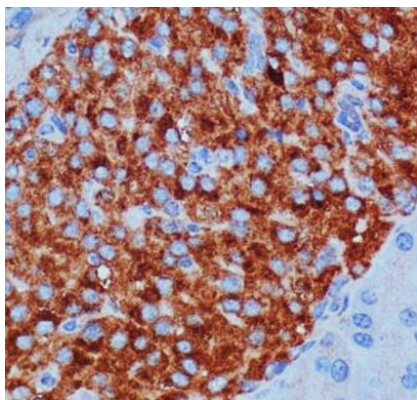
Gene Symbol	RIPK3
Gene Full Name	receptor-interacting serine-threonine kinase 3
Background	The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor. [provided by RefSeq, Jul 2008]
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 products: RIPK3 antibodies ; RIPK3 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ; Related news: RIP1 activation and pathogenesis of NASH Ripoptosome & Necrosome antibody panels are launched
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. [UniProt]
Cellular Localization	Cytoplasm, cytosol, Cell membrane, Mitochondrion. [UniProt]

Images



ARG58721 anti-RIPK3 / RIP3 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG58721 anti-RIPK3 / RIP3 antibody at 1:100 dilution.



ARG58721 anti-RIPK3 / RIP3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse pancreas tissue stained with ARG58721 anti-RIPK3 / RIP3 antibody at 1:100 dilution.