

ARG54881 anti-RIPK3 / RIP3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RIPK3 / RIP3
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RIPK3 / RIP3
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 489-518 of Human 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

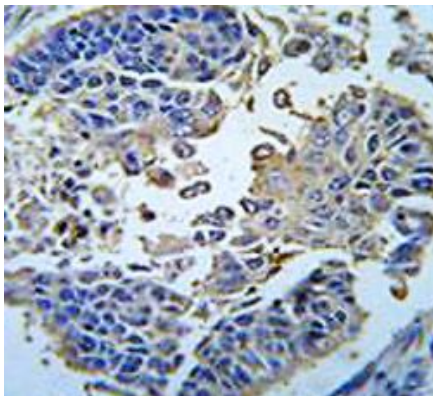
Application table	Application	Dilution
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	K562	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) 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.

Database links	GeneID: 11035 Human GeneID: 56532 Mouse Swiss-port # Q9QZL0 Mouse Swiss-port # Q9Y572 Human
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
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.
Cellular Localization	Cytoplasm, cytosol. Cell membrane Mitochondrion

Images



ARG54881 anti-RIPK3 / RIP3 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human lung carcinoma tissue stained with ARG54881 anti-RIPK3 / RIP3 antibody.

ARG54881 anti-RIPK3 / RIP3 antibody WB image

Western blot: 35 µg of K562 cell lysate stained with ARG54881 anti-RIPK3 / RIP3 antibody.

