Datasheet for ABIN7138450

anti-RIPK2 antibody (pSer176)

2 Images

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Overview

Quantity:	100 µL
Target:	RIPK2
Binding Specificity:	pSer176
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RIPK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 176 (S-L-S(p)-Q-S) derived from Human RIPK2.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	RIPK2
Alternative Name:	RIPK2 (RIPK2 Products)

Target Details

Background:	Background: Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NEMO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NEMO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation. Aliases: CARD 3 antibody, CARD carrying kinase antibody, CARD containing ICE associated kinase antibody, CARD containing IL 1 beta ICE kinase antibody, CARD containing IL1 beta ICE kinase antibody, CARD containing interleukin 1 beta converting enzyme (ICE) associated kinase antibody, CARD containing interleukin 1 beta converting enzyme associated kinase antibody, CARD-containing IL-1 beta ICE-kinase antibody, CARD-containing interleukin-1 beta-converting enzyme-associated kinase antibody, CARD3 antibody, CARDIAK antibody, CCK antibody, CLARP kinase antibody, GIG 30 antibody, GIG30 antibody, Growth inhibiting gene 30 antibody, Receptor interacting protein (RIP) like interacting caspase like apoptosis regulatory protein (CLARP) kinase antibody, Receptor interacting protein 2 antibody, Receptor interacting serine threonine kinase 2 antibody, Receptor interacting serine/threonine protein kinase 2 antibody, Receptor-interacting protein 2 antibody, Receptor-interacting serine/threonine-protein kinase 2 antibody, RICK antibody, RIP 2 antibody, RIP like interacting CLARP kinase antibody, RIP-2 antibody, RIP-like-interacting CLARP kinase antibody, RIPK 2 antibody, Ripk2 antibody, RIPK2_HUMAN antibody, TNFRSF antibody, Tyrosine-protein kinase RIPK2 antibody, UNQ277/PRO314/PRO34092 antibody
UniProt:	O43353
Pathways:	TCR Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Toll-Like Receptors Cascades

Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,

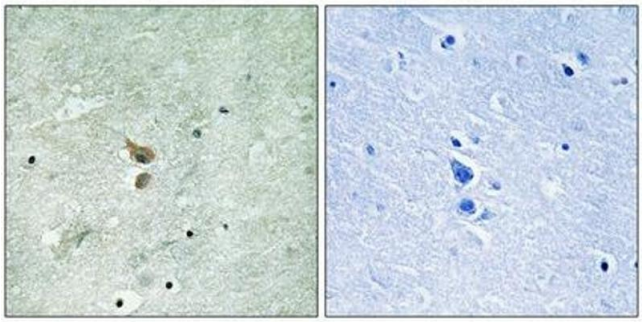
Application Details

Restrictions:	For Research Use only

Handling

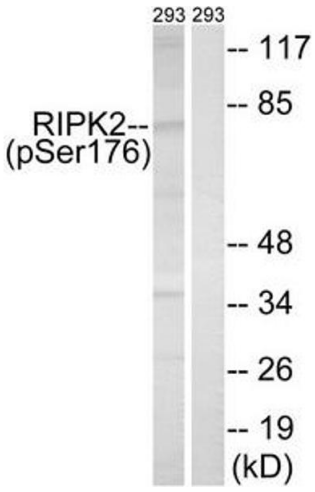
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue using RIPK2 (Phospho-Ser176) antibody. The picture on the right is treated with the synthesized peptide.



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells, treated with UV (15 mins), using RIPK2 (Phospho-Ser176) antibody. The lane on the right is treated with the synthesized peptide.