AB-PK797

RIPK2-pY381 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase RIPK2 (RIP2, RICK)

Address: 8755 Ash Street, Suite 1
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Target Protein

Name Long:	Receptor-interacting serine/threonine-protein kinase 2 (RIPK2)
Alias:	CARD3; CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta converting enzyme associated kinase; CARD-containing interleukin-1 beta-converting enzyme-associated kinase; CARDIAK; GIG30; Kinase RIPK2; Receptor-interacting protein 2; Receptor-interacting serine/threonine protein kinase 2; RICK; RIP2; RIP-like-interacting CLARP kinase
UniProt ID:	O43353
Sequence Predicted Mass (KDa):	61.195 (540 AA; O43353); 45.582 (403 AA; O43353-2)
Observed SDS-PAGE Mass (KDa):	55-70

Immunogen

Antibody Immunogen Source:	Human RIPK2 (RIP2, RICK) sequence peptide Cat. No.: PE-04APJ90
Antibody Immunogen Sequence:	QDA(pY)FMK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues Q378 to K384; In the region between the kinase catalytic and RHIM domains. This is a the major in vivo phosphorylation site in RIPK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-381

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	150305
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting | Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity