Product datasheet

Anti-RIPK2 Antibody

Catalog Number: *A00818-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-RIPK2 Antibody
Gene Name	RIPK2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human RIP2/RIPK2 recombinant protein (Position: Y15-M540).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	61 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

RIPK2(Receptor-interacting serine/threonine-protein kinase 2), also known as CARD3, CARDIAK, RICK, RIP2, is an?enzyme?that in humans is encoded by the?RIPK2?gene.?It has 540-amino acid protein in length.?Northern blot analysis revealed that RICK is expressed in various human tissues as 2.5- and 1.8-kb mRNAs that differ due to alternative polyadenylation. RICK is a novel kinase that may regulate apoptosis induced by the FAS receptor pathway. This gene encodes a member of the receptor-interacting protein(RIP) family of serine/threonine protein kinases. The encoded protein contains a C-terminal?caspase recruitment domain(CARD), and is a component of signaling complexes in both the innate and adaptive immune pathways. It is a potent activator of?NF-kappa B?and inducer of apoptosis in response to various stimuli, CARDIAK(CARD-containing ICE-associated kinase) specifically interacted with the CARD of ICE/caspase-1, and this interaction correlated with the processing of pro-caspase-1 and the formation of the active

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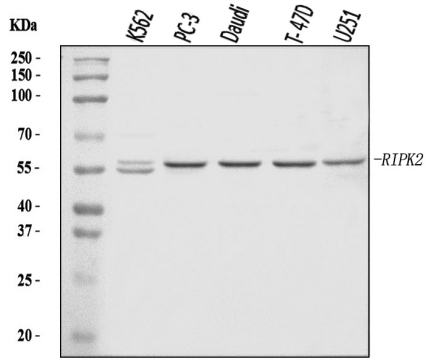
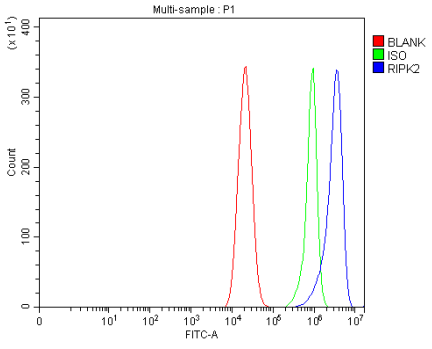
caspase-1 p20 subunit.

Selected Validation Data



Western blot analysis of RIPK2 using anti-RIPK2 antibody (A00818-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human PC-3 whole cell lysates,
Lane 3: human Daudi whole cell lysates,
Lane 4: human T-47D whole cell lysates,
Lane 5: human U251 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-RIPK2 antigen affinity purified polyclonal antibody (A00818-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for RIPK2 at approximately 61 kDa. The expected band size for RIPK2 is at 61 kDa.



Flow Cytometry analysis of Caco-2 cells using anti-RIPK2 antibody (A00818-2).
Overlay histogram showing Caco-2 cells stained with A00818-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RIPK2 Antibody (A00818-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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