

Anti-RIPK2 Antibody [JE51-90]

HA721300



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 61 kDa
Clone number:	JE51-90

Description: 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-kappa-B 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 IKK β /IKK γ . 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. Also plays a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation. Plays a role in the inactivation of RHOA in response to NGFR signaling. Detected in heart, brain, placenta, lung, peripheral blood leukocytes, spleen, kidney, testis, prostate, pancreas and lymph node.

Immunogen: Synthetic peptide within human RIPK2 aa 500-540.

Positive control: PC-3M cell lysate, 22Rv1 cell lysate, RWPE-1 cell lysate.

Subcellular location: Cytoplasm.

Database links: SwissProt: O43353 Human

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

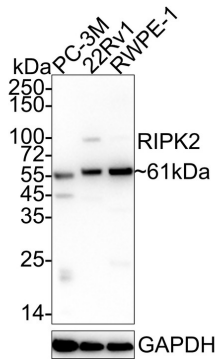


Fig1: Western blot analysis of RIPK2 on different lysates with Rabbit anti-RIPK2 antibody (HA721300) at 1/1,000 dilution.

Lane 1: PC-3M cell lysate

Lane 2: 22Rv1 cell lysate

Lane 3: RWPE-1 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 61 kDa

Observed band size: 61 kDa

Exposure time: 2 minutes 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721300) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of RIPK2 on different lysates with Rabbit anti-RIPK2 antibody (HA721300) at 1/1,000 dilution.

Lane 1: A549-si NT cell lysate

Lane 2: A549-si RIPK2 cell lysate

Lysates/proteins at 20 µg/Lane.

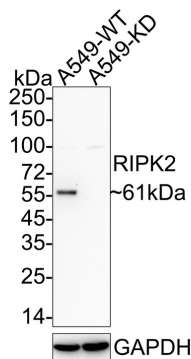
Predicted band size: 61 kDa

Observed band size: 61 kDa

Exposure time: 45 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721300) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Bist P., Cheong W.S., Ng A., Dikshit N., Kim B.H., Pulloor N.K., Khameneh H.J., Hedl M., Shenoy A.R., Balamuralidhar V., Malik N.B.A., Hong M., Neutzner A., Chin K.C., Kobayashi K.S., Bertolotti A., Mortellaro A., Abraham C., MacMicking J.D., Xavier R.J., Sukumaran B. E3 Ubiquitin ligase ZNRF4 negatively regulates NOD2 signalling and induces tolerance to MDP. *Nat. Commun.* 8:15865-15865 (2017)
2. Tigno-Aranjuez J.T., Asara J.M., Abbott D.W. Inhibition of RIP2's tyrosine kinase activity limits NOD2-driven cytokine responses. *Genes Dev.* 24:2666-2677 (2010)

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