

Anti-RIP3 Antibody [PSH04-79] - BSA and Azide free

HA750973



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	PSH04-79

Description: Receptor-interacting serine/threonine-protein kinase 3 is an enzyme that is encoded by the RIPK3 gene in humans. The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases. It 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 necroptosis by interaction with RIPK1 and MLKL in a protein complex termed the necrosome. Interactions between RIPK1 and RIPK3 also form a necrosome, which triggers apoptosis.

Immunogen: Synthetic peptide within human RIP3 aa 469-518 / 518.

Positive control: THP-1 cell lysate, HT-29 cell lysate, SK-Br-3 cell lysate, HT-29, human colon cancer tissue.

Subcellular location: Cytoplasm, cytosol, Nucleus.

Database links: SwissProt: Q9Y572 Human

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8°C. Avoid freeze.

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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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

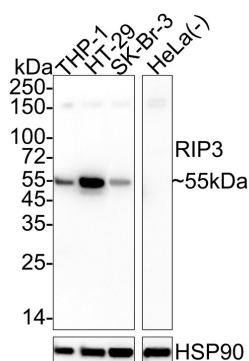


Fig1: This data was developed using HA722183, the same antibody clone in a different buffer formulation. Western blot analysis of RIP3 on different lysates with Rabbit anti-RIP3 antibody (HA722183) at 1/2,000 dilution.

Lane 1: THP-1 cell lysate (30 µg/Lane)
 Lane 2: HT-29 cell lysate (30 µg/Lane)
 Lane 3: SK-BR-3 cell lysate (30 µg/Lane)
 Lane 4: HeLa cell lysate (negative) (30 µg/Lane)

Predicted band size: 57 kDa
 Observed band size: 55 kDa

Exposure time: 1 minute; 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 (HA722183) at 1/2,000 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.

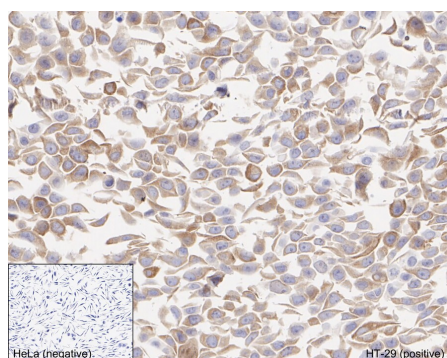


Fig2: This data was developed using HA722183, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded HT-29 (positive) and HeLa (negative) cells with Rabbit anti-RIP3 antibody (HA722183) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722183) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

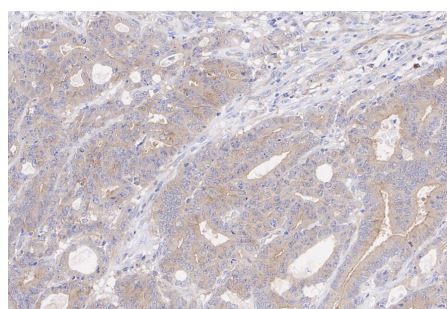


Fig3: This data was developed using HA722183, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Rabbit anti-RIP3 antibody (HA722183) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722183) at 1/1,000 dilution 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. Zeng X et al. Activated Drp1 regulates p62-mediated autophagic flux and aggravates inflammation in cerebral ischemia-reperfusion via the ROS-RIP1/RIP3-exosome axis. *Mil Med Res*. 2022 May
2. Chen X et al. Mosaic composition of RIP1-RIP3 signalling hub and its role in regulating cell death. *Nat Cell Biol*. 2022 Apr

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