Anti-RIP3 Antibody [PSH04-78]

HA722182

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	PSH04-78

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 401-450 / 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

Recommended Dilutions:

WB	1:2,000
IHC-P	1:2,000-1:5,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

Images

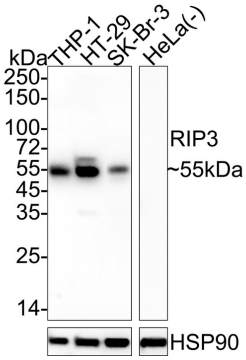

Fig1: Western blot analysis of RIP3 on different lysates with Rabbit anti-RIP3 antibody (HA722182) at 1/2,000 dilution.

Lane 1: THP-1 cell lysate
Lane 2: HT-29 cell lysate
Lane 3: SK-Br-3 cell lysate
Lane 4: HeLa cell lysate (negative)

Lysates/proteins at 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 (HA722182) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

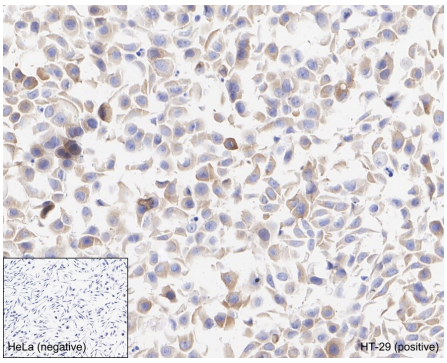

Fig2: Immunohistochemical analysis of paraffin-embedded HT-29 (positive) and HeLa (negative) cells with Rabbit anti-RIP3 antibody (HA722182) at 1/5,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA722182) at 1/5,000 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.

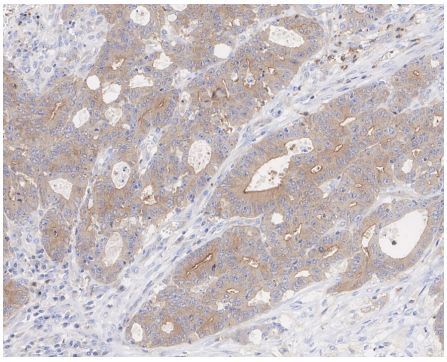

Fig3: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Rabbit anti-RIP3 antibody (HA722182) at 1/2,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA722182) at 1/2,000 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.

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