Anti-UFSP2 Antibody [PSH03-57]

HA722016

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 53 kDa
Clone number:	PSH03-57

Description: UFM1 specific peptidase 2 is a protein that in humans is encoded by the UFSP2 gene. This gene encodes a highly conserved cysteine protease. The protein cleaves two C-terminal residues from ubiquitin-fold modifier 1, a ubiquitin-like post-translational modifier protein. Activation of ubiquitin-fold modifier 1 by the encoded protein exposes a C-terminal glycine residue that allows interaction with other proteins and transfer to its target protein. An allelic variant of this gene has been associated with Beukes hip dysplasia. Alternative splicing results in multiple transcript variants.

Immunogen: Synthetic peptide within human UFSP2 aa 420-469 / 469.

Positive control: 293T cell lysate, HeLa cell lysate, HepG2 cell lysate, U-87 MG cell lysate, Neuro-2a cell lysate, RAW264.7 cell lysate, PC-12 cell lysate, C6 cell lysate, human colon tissue, human stomach tissue, mouse kidney tissue, rat kidney tissue.

Subcellular location: Cytoplasm, Endoplasmic reticulum, Nucleus.

Database links: SwissProt: Q9NUQ7 Human | Q99K23 Mouse | Q5XIB4 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:200-1:500

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

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

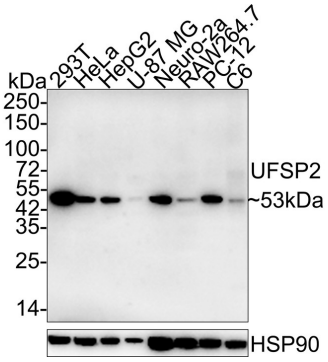

Fig1: Western blot analysis of UFSP2 on different lysates with Rabbit anti-UFSP2 antibody (HA722016) at 1/2,000 dilution.

Lane 1: 293T cell lysate
Lane 2: HeLa cell lysate
Lane 3: HepG2 cell lysate
Lane 4: U-87 MG cell lysate
Lane 5: Neuro-2a cell lysate
Lane 6: RAW264.7 cell lysate
Lane 7: PC-12 cell lysate
Lane 8: C6 cell lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 53 kDa
Observed band size: 53 kDa

Exposure time: 1 minute 40 seconds;

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 (HA722016) 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.

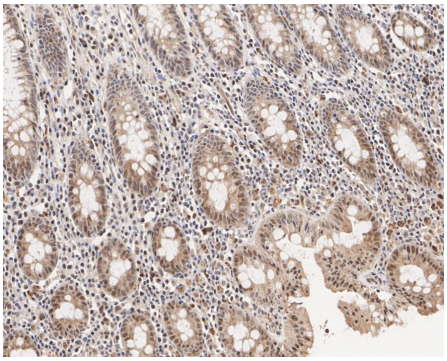

Fig2: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-UFSP2 antibody (HA722016) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA722016) at 1/200 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.

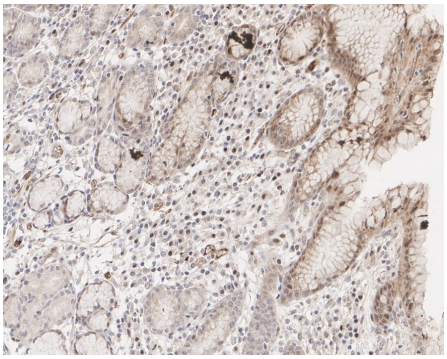

Fig3: Immunohistochemical analysis of paraffin-embedded human stomach tissue with Rabbit anti-UFSP2 antibody (HA722016) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA722016) at 1/200 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.

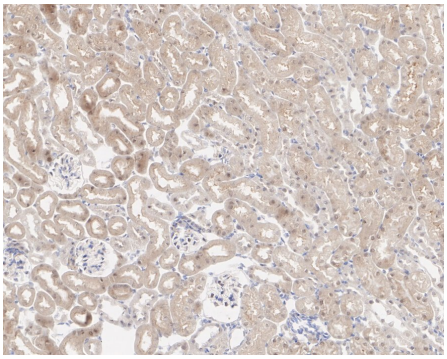

Fig4: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-UFSP2 antibody (HA722016) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA722016) at 1/200 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.

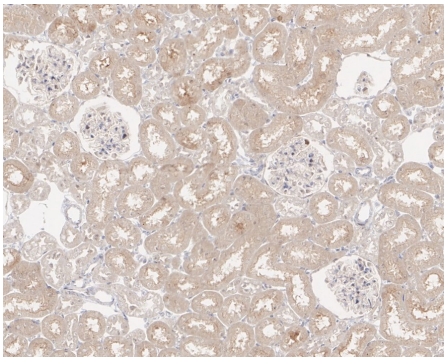

Fig5: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-UFSP2 antibody (HA722016) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA722016) at 1/200 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. Cao Z et al. The UFSP2/UFMylation Pathway Is Involved in Silica-Induced Pulmonary Injury. DNA Cell Biol. 2021 Apr
2. Zhang G et al. UFSP2-related spondyloepimetaphyseal dysplasia: A confirmatory report. Eur J Med Genet. 2020 Nov