

RUVBL2 Recombinant Antibody [A1E12-R] - Rabbit IgG (Chimeric)

HA724802



Product Type:	Recombinant Chimeric, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey
Applications:	WB, IF-Cell, IHC-P, FC(Intra)
Molecular Wt:	Predicted band size: 51 kDa
Clone number:	A1E12-R

Description: Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5' to 3') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity. Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome -DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. May also inhibit the transcriptional activity of ATF2. Involved in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway where it negatively regulates expression of ER stress response genes.

Immunogen: Recombinant protein within Human RUVB2 aa 130-321 / 463.

Positive control: HeLa (Human cervical adenocarcinoma cell) cell lysate, 293T (Human embryonic kidney cell) cell lysate, RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate, C6 (Rat glioma cell) cell lysate, COS-1 (African green monkey kidney fibroblast) cell lysate, Mouse testis tissue lysate, Rat testis tissue lysate.

Subcellular location: Nucleus matrix, nucleoplasm, cytoplasm, membrane.

Database links: SwissProt: Q9Y230 Human | Q9WTM5 Mouse
Entrez Gene: 292907 Rat

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:500
IHC-P	1:2,000
FC(Intra)	1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

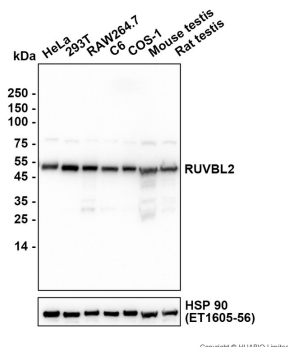
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of RUVBL2 on different lysates with Rabbit anti-RUVBL2 antibody (HA724802) at 1/2,000 dilution.



Lane 1: HeLa (Human cervical adenocarcinoma cell) cell lysate (15 µg/Lane)

Lane 2: 293T (Human embryonic kidney cell) cell lysate (15 µg/Lane)

Lane 3: RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate (15 µg/Lane)

Lane 4: C6 (Rat glioma cell) cell lysate (15 µg/Lane)

Lane 5: COS-1 (African green monkey kidney fibroblast) cell lysate (15 µg/Lane)

Lane 6: Mouse testis tissue lysate (30 µg/Lane)

Lane 7: Rat testis tissue lysate (30 µg/Lane)

Exposure time: 6 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA724802, 1/2,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 51 kDa

Observed band size: 51 kDa

Fig2: Application: Immunocytochemistry (IF-cell)

Species: Mouse

Sample: RAW264.7 (Mouse monocytic macrophage leukemia cell)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

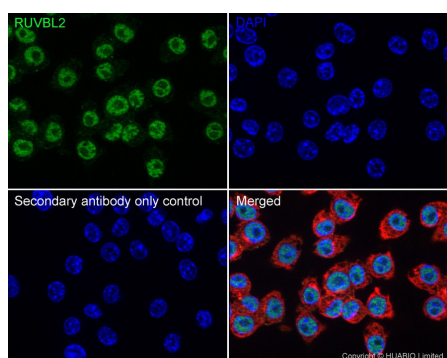
Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724802, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).



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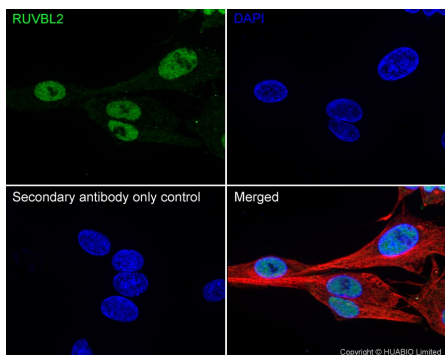


Fig3: Application: Immunocytochemistry (IF-cell)

Species: Rat

Sample: C6 (Rat glioma cell)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724802, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

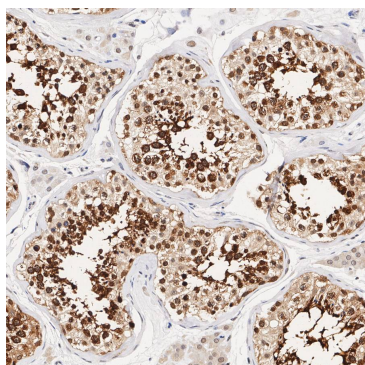


Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Testis

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724802, 1/2,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

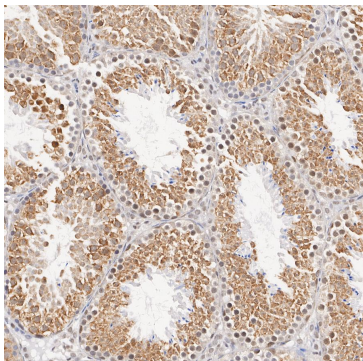


Fig5: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Testis

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724802, 1/2,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

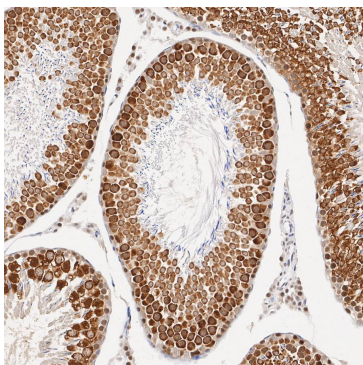


Fig6: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Testis

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

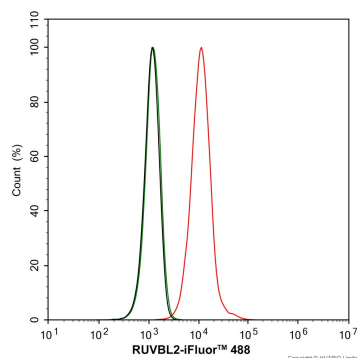
Primary antibody: HA724802, 1/2,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

Fig7: Application: Flow Cytometry (Intra)

Species: Mouse

Sample: RAW264.7 (Mouse monocytic macrophage leukemia cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724802 (1/1,000, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

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

Background References

1. Muñoz-Hernández H. et. al. Structural mechanism for regulation of the AAA-ATPases RUVBL1-RUVBL2 in the R2TP co-chaperone revealed by cryo-EM. *Sci Adv.* 2019 May 1;5(5):eaaw1616.
2. Morwitzer MJ. et. al. Identification of RUVBL1 and RUVBL2 as Novel Cellular Interactors of the Ebola Virus Nucleoprotein. *Viruses.* 2019 Apr 23;11(4).

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