

Anti-E2F4 Antibody [JE40-78]

HA721374



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, FC
Molecular Wt:	Predicted band size: 44 kDa
Clone number:	JE40-78

Description: Transcription factor E2F4 is a protein that in humans is encoded by the E2F4 gene. The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. This protein binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer.

Immunogen: Synthetic peptide within Human E2F4 aa 271-320 / 413.

Positive control: K-562 cell lysate, A549 cell lysate, HEK-293 cell lysate, Jurkat cell lysate, HepG2 cell lysate, Raji cell lysate, HeLa cell lysate, human liver tissue, K-562.

Subcellular location: Nucleus.

Database links: SwissProt: Q16254 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:1,000
FC	1:500-1:1,000

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

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

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

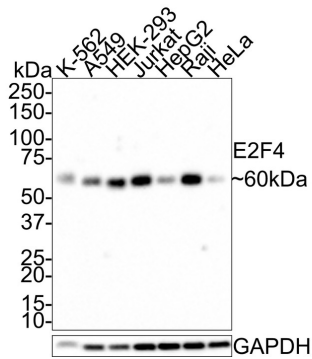
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of E2F4 on different lysates with Rabbit anti-E2F4 antibody (HA721374) at 1/1,000 dilution.



Lane 1: K-562 cell lysate
 Lane 2: A549 cell lysate
 Lane 3: HEK-293 cell lysate
 Lane 4: Jurkat cell lysate
 Lane 5: HepG2 cell lysate
 Lane 6: Raji cell lysate
 Lane 7: HeLa cell lysate

Lysates/proteins at 15 µg/Lane.

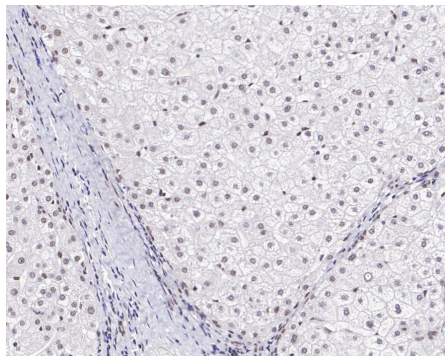
Predicted band size: 44 kDa
 Observed band size: 60 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721374) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Fig2: Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-E2F4 antibody (HA721374) at 1/1,000 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 ddH₂O and PBS, and then probed with the primary antibody (HA721374) 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.

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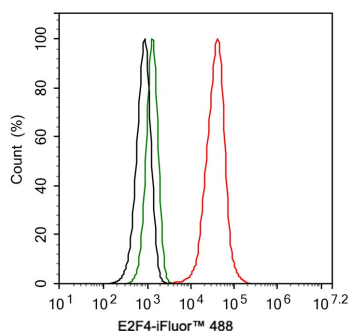


Fig3: Flow cytometric analysis of K-562 cells labeling E2F4.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA721374, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

Background References

1. Xiao W et al. Therapeutic targeting of the USP2-E2F4 axis inhibits autophagic machinery essential for zinc homeostasis in cancer progression. *Autophagy*. 2022 Nov
2. Jin X et al. E2f4 is required for intestinal and otolith development in zebrafish. *J Cell Physiol*. 2022 Jun

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