

Anti-eIF-6 Antibody [A6A2-R] - BSA and Azide free

HA610167



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 27 kDa
Clone number:	A6A2-R

Description: Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm. Behaves as a stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to insulin, controls fatty acid synthesis and glycolysis by exerting translational control of adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF in their 5'UTR. Required for ROS-dependent megakaryocyte maturation and platelets formation, controls the expression of mitochondrial respiratory chain genes involved in reactive oxygen species (ROS) synthesis.

Immunogen: Recombinant protein within human eIF-6 aa 1-200.

Positive control: HeLa cell lysate, HepG2 cell lysate, RAW264.7 cell lysate, NIH/3T3 cell lysate, mouse testis tissue lysate, rat testis tissue lysate.

Subcellular location: Cytoplasm, Nucleus, nucleolus.

Database links: SwissProt: P56537 Human | O55135 Mouse | Q3KRD8 Rat

Recommended Dilutions:

WB 1:1,000

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

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

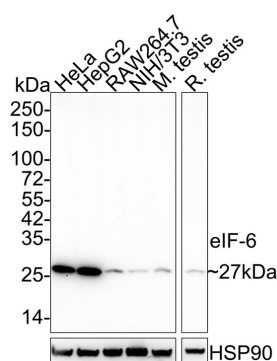
Service mail:support@huabio.cn

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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: Western blot analysis of eIF-6 on different lysates with Mouse anti-eIF-6 antibody (HA610167) at 1/1,000 dilution.



Lane 1: HeLa cell lysate
 Lane 2: HepG2 cell lysate
 Lane 3: RAW264.7 cell lysate
 Lane 4: NIH/3T3 cell lysate
 Lane 5: Mouse testis tissue lysate
 Lane 6: Rat testis tissue lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 5 minutes;

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 (HA610167) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Anti-Mouse IgG for IP Nano-secondary antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Liu Z. et. al. Long noncoding RNA PICSAR/miR-588/EIF6 axis regulates tumorigenesis of hepatocellular carcinoma by activating PI3K/AKT/mTOR signaling pathway. Cancer Sci. 2020 Nov
2. Pesce E. et. al. Discovery and Preliminary Characterization of Translational Modulators that Impair the Binding of eIF6 to 60S Ribosomal Subunits. Cells. 2020 Jan

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