

Anti-ApoER2 Antibody [JE31-73]

HA722203



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 106 kDa
Clone number:	JE31-73

Description: Low-density lipoprotein receptor-related protein 8 (LRP8), also known as apolipoprotein E receptor 2 (ApoER2), is a protein that in humans is encoded by the LRP8 gene. ApoER2 is a cell surface receptor that is part of the low-density lipoprotein receptor family. These receptors function in signal transduction and endocytosis of specific ligands. Through interactions with one of its ligands, reelin, ApoER2 plays an important role in embryonic neuronal migration and postnatal long-term potentiation. Another LDL family receptor, VLDLR, also interacts with reelin, and together these two receptors influence brain development and function. Decreased expression of ApoER2 is associated with certain neurological diseases.

Immunogen: Recombinant protein within Human ApoER2 aa 864-963 / 963.

Positive control: SH-SY5Y cell lysate, A549 cell lysate, U-87 MG cell lysate, HepG2 cell lysate, RAW264.7 cell lysate, C6 cell lysate, human testis tissue.

Subcellular location: Cell membrane, Secreted.

Database links: SwissProt: Q14114 Human | Q924X6 Mouse
Entrez Gene: 362558 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	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

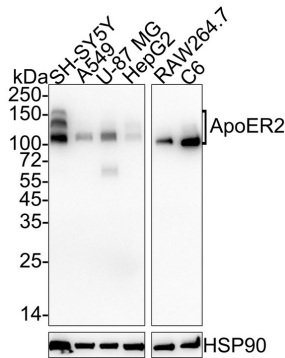
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of ApoER2 on different lysates with Rabbit anti-ApoER2 antibody (HA722203) at 1/1,000 dilution.



Lane 1: SH-SY5Y cell lysate
 Lane 2: A549 cell lysate
 Lane 3: U-87 MG cell lysate
 Lane 4: HepG2 cell lysate
 Lane 5: RAW264.7 cell lysate
 Lane 6: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

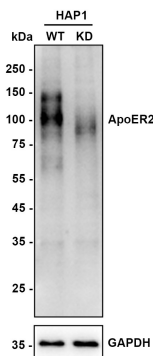
Predicted band size: 106 kDa
 Observed band size: 100-150 kDa

Exposure time: 3 minutes; ECL: K1801;

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 (HA722203) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of ApoER2 on different lysates with Rabbit anti-ApoER2 antibody (HA722203) at 1/2,000 dilution.



Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-ApoER2 KD cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 106 kDa
 Observed band size: 100-150 kDa

Exposure time: 2 minutes; ECL: K1802;

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 (HA722203) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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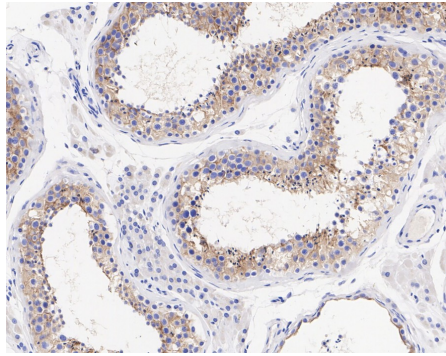


Fig3: Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-ApoER2 antibody (HA722203) at 1/1,000 dilution.

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 ddH₂O and PBS, and then probed with the primary antibody (HA722203) 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.

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

Background References

1. Clark LE et al. VLDLR and ApoER2 are receptors for multiple alphaviruses. *Nature*. 2022 Feb
2. Omuro KC et al. Human APOER2 Isoforms Have Differential Cleavage Events and Synaptic Properties. *J Neurosci*. 2022 May

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