

Anti-CLPTM1 Antibody [JE61-28]

HA722568



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 76 kDa
Clone number:	JE61-28

Description: Cleft lip and palate transmembrane protein 1 (Clptm1) is a multi-transmembrane protein that in humans is encoded by the CLPTM1 gene. Clptm1 was characterized in 1995 as a surface membrane protein in the thymus during embryonic development in mice and is suggested to have an important role in T-cell development. A more recent study shows a role in GABAA receptor subunit intracellular anchoring and regulation resulting in an influence on synaptic strength Clptm1 belongs to a family of several eukaryotic cleft lip and palate transmembrane protein 1 sequences. Cleft lip with or without cleft palate is a common birth defect that is genetically complex. The non-syndromic forms have been studied genetically using linkage and candidate-gene association studies with only partial success in defining the loci responsible for orofacial clefting. CLPTM1 encodes a transmembrane protein and has strong homology to two Caenorhabditis elegans genes, suggesting that CLPTM1 may belong to a new gene family. This family also contains the Homo sapiens cisplatin resistance related protein CRR9p which is associated with CDDP-induced apoptosis.

Immunogen: Synthetic peptide within human CLPTM1 aa 1-50 / 669.

Positive control: HeLa cell lysate, HEK-293 cell lysate, HepG2 cell lysate, human brain tissue, human thyroid tissue.

Subcellular location: Membrane.

Database links: SwissProt: O96005 Human

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

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

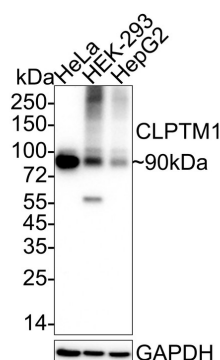
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of CLPTM1 on different lysates with Rabbit anti-CLPTM1 antibody (HA722568) at 1/1,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: HEK-293 cell lysate (20 µg/Lane)
 Lane 3: HepG2 cell lysate (20 µg/Lane)

Predicted band size: 76 kDa
 Observed band size: 90 kDa

Exposure time: 20 seconds; ECL: K1801;
 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 (HA722568) at 1/1,000 dilution was used in 5% NFDM/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.

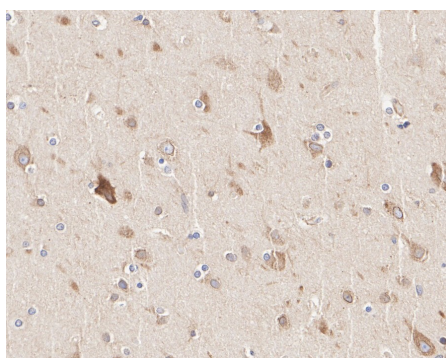


Fig2: Immunohistochemical analysis of paraffin-embedded human brain tissue with Rabbit anti-CLPTM1 antibody (HA722568) at 1/1,000 dilution.

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 (HA722568) 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.

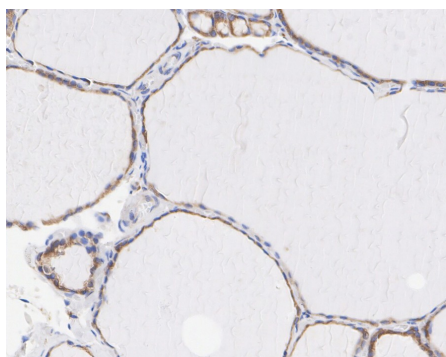


Fig3: Immunohistochemical analysis of paraffin-embedded human thyroid tissue with Rabbit anti-CLPTM1 antibody (HA722568) at 1/1,000 dilution.

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 (HA722568) 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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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Liu N et al. De novo CLPTM1 variants with reduced GABA(A) R current response in patients with epilepsy. *Epilepsia*. 2023 Nov
2. Zhang XL et al. Clptm1, a new target in suppressing epileptic seizure by regulating GABA(A) R-mediated inhibitory synaptic transmission in a PTZ-induced epilepsy model. *Kaohsiung J Med Sci*. 2023 Jan

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