10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1155

Specification

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O96005
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 76 kDa, observed, 90 kDa KDa**
Gene Name	**CLPTM1**
Aliases	**CLPTM1; CLPTM1 Regulator Of GABA Type A Receptor Forward Trafficking; Cleft Lip And Palate Associated Transmembrane Protein 1; Cleft Lip And Palate Transmembrane Protein 1; Putative Lipid Scramblase CLPTM1; CLPTM1, Transmembrane Protein**
Immunogen	**A synthesized peptide derived from CLPTM1**

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **1209**

Other Names
Putative lipid scramblase CLPTM1, Cleft lip and palate transmembrane protein 1, CLPTM1

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Protein Information

Name CLPTM1

Function
Involved in GABAergic but not glutamatergic transmission. Binds and traps GABAA receptors in the endoplasmic reticulum (ER). Modulates postsynaptic GABAergic transmission, and therefore inhibitory neurotransmission, by reducing the plasma membrane expression of these receptors. Altered GABAergic signaling is one among many causes of cleft palate (By similarity). Might function as a lipid scramblase, translocating lipids in membranes from one leaflet to the other one (By similarity). Required for efficient glycosylphosphatidylinositol (GPI) inositol deacylation in the ER, which is a crucial step to switch GPI- anchored proteins (GPI-APs) from protein folding to transport states (PubMed:29255114). May play a role in T-cell development (By similarity).

Cellular Location
Membrane; Multi-pass membrane protein

Tissue Location

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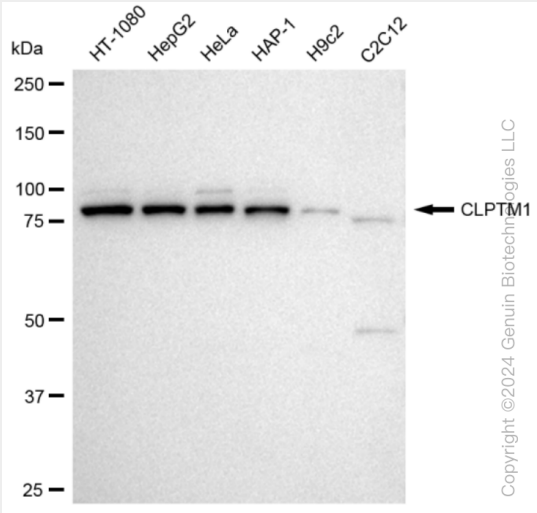
Widely expressed..

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Protocols

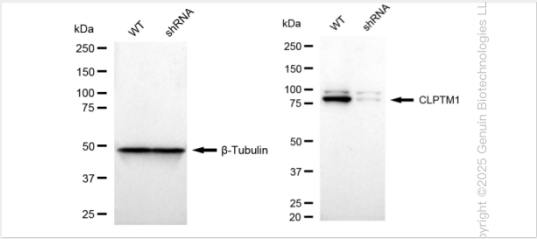
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CLPTM1 antibody (Cat#AGI1155). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CLPTM1 antibody (Cat#AGI1155, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-CLPTM1 antibody (Cat#AGI1155). CLPTM1 expression in wild type (WT) and CLPTM1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-CLPTM1 antibody (Cat#AGI1155, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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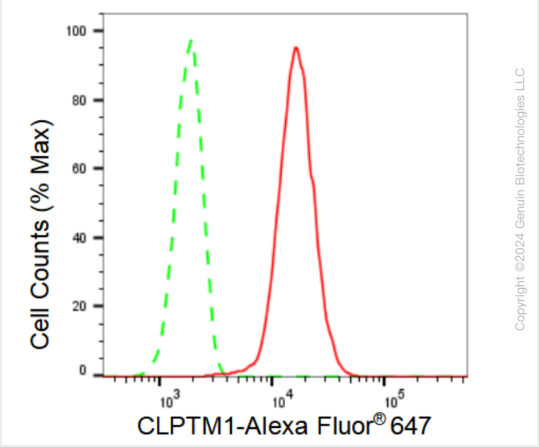
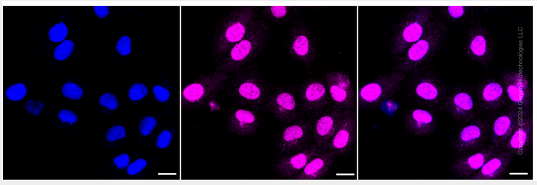


Flow cytometric analysis of CLPTM1 expression in HT-1080 cells using CLPTM1 antibody (Cat#AGI1155, 1:2,000). Green, isotype control; red, CLPTM1.



Immunocytochemical staining of HT-1080 cells with CLPTM1 antibody (Cat#AGI1155, 1:1,000). Nuclei were stained blue with DAPI; CLPTM1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.