

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: <http://www.uniprot.org/citations/29255114> target="_blank">29255114). May play a role in T-cell development (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein

Tissue Location

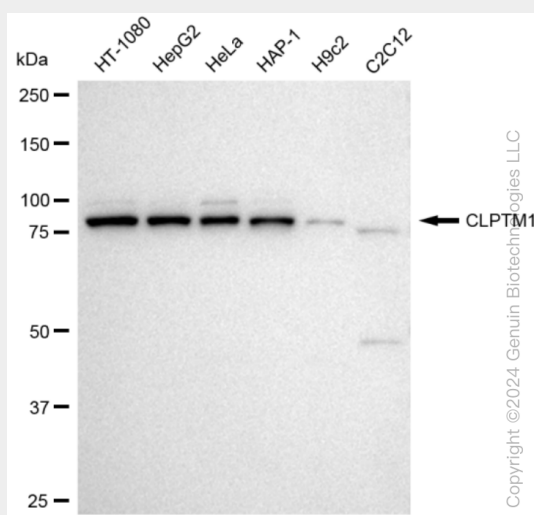
Widely expressed..

KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Protocols

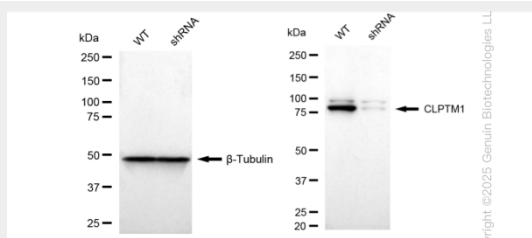
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

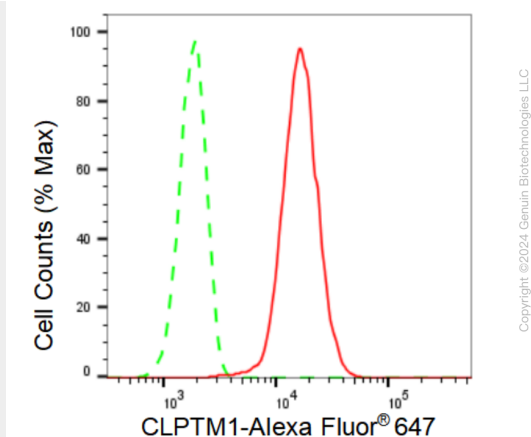
KD-Validated Anti-CLPTM1 Rabbit Monoclonal Antibody - Images



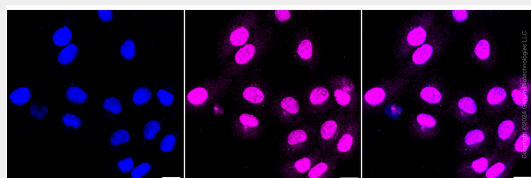
Western blotting analysis using anti-CLPTM1 antibody (Cat#AGI1155). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CLPTM1 antibody (Cat#AGI1155, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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.



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 μ m.