

LAPTM4A (T-14): sc-132322

BACKGROUND

Lysosomal-associated transmembrane protein 4A (LAPTM4A), also known as Golgi 4-transmembrane spanning transporter MTP, is a 233 amino acid protein belonging to the LAPTM5/LAPTM5 transporter family. LAPTM4A is subcellularly localized to the intracytoplasmic membrane and has the potential to reside in intracellular membrane-bound compartments. LAPTM4A is thought to function as a transporter of nucleosides and/or nucleoside derivatives between the cytosol and the lumen of intracellular compartments. LAPTM4A is predicted to have four transmembrane domains, with the C-terminal domain being required for retention of the protein within intracellular membranes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LAPTM4A (human) mapping to 2p24.1; *Laptm4a* (mouse) mapping to 12 A1.1.

SOURCE

LAPTM4A (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LAPTM4A of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132322 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LAPTM4A (T-14) is recommended for detection of LAPTM4A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with LAPTM4B.

LAPTM4A (T-14) is also recommended for detection of LAPTM4A in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LAPTM4A siRNA (h): sc-94824, LAPTM4A siRNA (m): sc-146645, LAPTM4A shRNA Plasmid (h): sc-94824-SH, LAPTM4A shRNA Plasmid (m): sc-146645-SH, LAPTM4A shRNA (h) Lentiviral Particles: sc-94824-V and LAPTM4A shRNA (m) Lentiviral Particles: sc-146645-V.

Molecular Weight of LAPTM4A: 27 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.