

DESCRIPTION

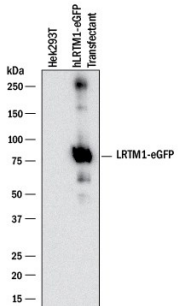
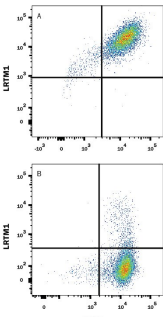
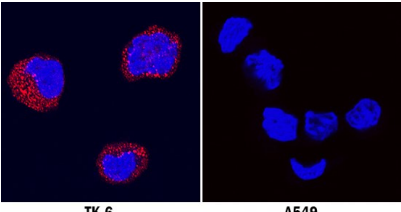
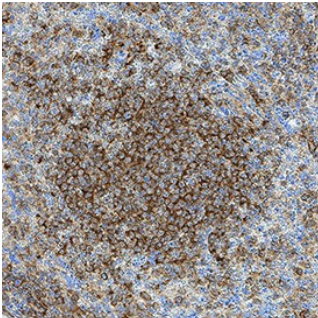
Species Reactivity	Human
Specificity	Detects human LRTM1 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2381D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Synthetic peptide containing human LRTM1 Accession # Q9HBL6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunocytochemistry	3-25 µg/mL	See Below
Immunohistochemistry	3-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p>  <p>Detection of Human LRTM1 by Western Blot. Western blot shows lysates of HEK293T human embryonic kidney cell line either mock transfected or transfected with human LRTM1 and eGFP. PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human LRTM1 Monoclonal Antibody (Catalog # MAB10046) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for LRTM1 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Flow Cytometry</p>  <p>Detection of LRTM1 in HEK293 Human Cell Line Transfected with Human LRTM1 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human LRTM1 or (B) irrelevant transfectants and eGFP was stained with Rabbit Anti-Human LRTM1 Monoclonal Antibody (Catalog # MAB10046) followed by APC-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). Quadrant markers were set based on control antibody staining (Catalog # MAB1050). View our protocol for Staining Membrane-associated Proteins.</p>
<p>Immunocytochemistry</p>  <p>LRTM1 in TK-6 and A549 Human Cell Lines. LRTM1 was detected in immersion fixed TK-6 human lymphoblastoid cell line (left panel; positive stain) and A549 human lung carcinoma cell line (right panel; negative stain) using Rabbit Anti-Human LRTM1 Monoclonal Antibody (Catalog # MAB10046) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>	<p>Immunohistochemistry</p>  <p>LRTM1 in Human Spleen. LRTM1 was detected in immersion fixed paraffin-embedded sections of human spleen using Rabbit Anti-Human LRTM1 Monoclonal Antibody (Catalog # MAB10046) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from date of receipt, -20 to -70 °C as supplied.• 1 month, 2 to 8 °C under sterile conditions after reconstitution.• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LRTM1 belongs to the extracellular LRRs superfamily. LRTM1 is involved in positive regulation of synapse assembly and is an integral component of the membrane. LRTM1 has the highest expression level in pineal body.