



Recombinant Protein Technical Manual

**Recombinant Human CD208/LAMP3/DC-LAMP
Protein (His Tag)**
RPES2263

Product Data:

Product SKU: RPES2263

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_055213.2

Protein Information:

Molecular Mass: 39 kDa

AP Molecular Mass: 70-90 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CD208;DC LAMP;DC-LAMP;DCLAMP;LAMP;LAMP-3;TSC403

Immunogen Information:

Sequence: Lys 28-Thr 381

Background:

Dendritic cell-lysosomal associated membrane protein (DC-LAMP)/CD208, also known as LAMP3, is a member of the lysosomal associated membrane protein (LAMP) family, which is specifically expressed by human dendritic cells (DCs) upon activation and therefore serves as marker of human DC maturation. Confocal and immunoelectron microscopy showed that mouse DC-LAMP protein co-localizes with lbn180, a specific marker for the limiting membrane of lamellar bodies that contain surfactant protein B. The present study demonstrates that DC-LAMP is constitutively expressed by mouse, sheep, and human type II pneumocytes. DC-LAMP is constitutively expressed in normal type II pneumocytes. DC-LAMP is detected first in activated human DC within MHC class II molecules-containing compartments just before the translocation of MHC class II-peptide complexes to the cell surface, suggesting a possible involvement in this process. Furthermore, overexpression of LAMP3 is actively involved in tumor invasion through increased migration into lymph-vascular spaces.