# Data Sheet (Cat.No.TMAY-00947)

TargetMol

## Anti-LAMP3/CD208 Antibody (3R433)

### Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 3R433 |
| Purification: | Protein A |

### Applications

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| Verified Activity: | Immunofluorescence staining of Human LAMP3 in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human LAMP3 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and countstained with DAPI (blue). Positive staining was localized to cytoplasm. |
| Application: | ICC/IF |
| Recommended | ICC-IF: 1:20-1:100 |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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|---|---|
| Immunogen: | Recombinant Protein: Human CD208 / DC-LAMP / LAMP3 protein (TMPY-01013) |
| Antigen Species: | Human |
| Synonyms: | lysosomal associated membrane protein 3;LAMP3 |

### Research 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 a marker of human DC maturation. Confocal and immunoelectron microscopy showed that mouse DC-LAMP protein co-localizes with lbm180, 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 the 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.



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