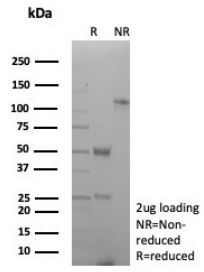
CD27 Antibody Recombinant Mouse MAb [clone rLPFS2/8837] (V4228)

Catalog No.	Formulation	Size
V4228-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4228-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4228SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rLPFS2/8837
Purity	Protein A/G affinity
UniProt	P26842
Localization	Cell surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This CD27 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free CD27 antibody (clone rLPFS2/8837) as confirmation of integrity and purity.

Description

CD27 antibody recognizes CD27, a type I transmembrane glycoprotein and member of the tumor necrosis factor receptor superfamily encoded by the CD27 gene. CD27 is primarily localized to the plasma membrane of T lymphocytes, memory

B cells, and subsets of natural killer cells, where it functions as a co-stimulatory receptor that promotes lymphocyte activation, proliferation, and survival. CD27 Antibody Recombinant Mouse MAb supports research focused on adaptive immunity, lymphocyte differentiation, and immune activation pathways.

The CD27 gene is located on chromosome 12p13 and encodes a protein containing extracellular cysteine-rich domains typical of TNF receptor family members, a single transmembrane region, and a cytoplasmic tail that recruits TRAF adaptor proteins. Upon interaction with its ligand CD70, CD27 activates downstream signaling cascades including NF-kappaB, contributing to T-cell expansion, memory formation, and B-cell maturation. CD27 expression is tightly regulated during immune responses and is widely used as a marker to distinguish naive, memory, and effector lymphocyte subsets.

In secondary lymphoid tissues such as tonsil and lymph node, CD27-positive cells are commonly observed within T-cell rich paracortical areas and in subsets of B cells associated with germinal center reactions. CD27 is broadly expressed on naive and central memory T cells and on memory B cells, while terminally differentiated effector populations may show reduced expression. Dysregulation of the CD27-CD70 axis has been implicated in chronic infection, autoimmune disease, and certain lymphoid malignancies. CD27 Antibody Recombinant Mouse MAb enables evaluation of CD27 distribution and expression levels in both normal and pathological immune contexts.

The CD27-CD70 pathway is also under investigation in immuno-oncology, where modulation of co-stimulatory signaling can enhance anti-tumor immune responses. Analysis of CD27 expression in tumor-infiltrating lymphocytes provides insight into activation status and immune microenvironment composition. Clone rLPFS2/8837 is engineered as a recombinant mouse monoclonal antibody to provide consistent specificity and reproducibility in CD27 detection.

By targeting a central regulator of lymphocyte activation, CD27 Antibody Recombinant Mouse MAb provides a dependable reagent for studying T-cell and B-cell biology, immune regulation, and translational immunotherapy research.

Application Notes

Optimal dilution of the CD27 antibody should be determined by the researcher.

Immunogen

A recombinant human CD27 protein fragment (within amino acids 28-170) was used as the immunogen for the CD27 antibody.

Storage

Aliquot the CD27 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.