

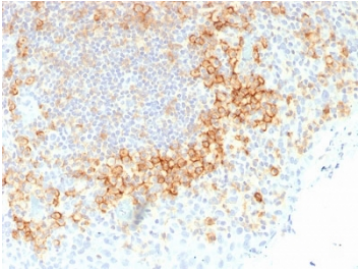
## CD27 Antibody / T Cell Activation Marker Antibody [clone rLPFS2/1611] (V3558)

Catalog No.	Formulation	Size
V3558-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3558-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3558SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3558IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

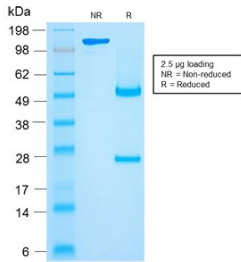
Recombinant **MOUSE MONOCLONAL**

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	rLPFS2/1611
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P26842
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This CD27 Antibody / T Cell Activation Marker Antibody is available for research use only.



CD27 Antibody Human Tonsil IHC. Immunohistochemistry analysis of CD27 / TNFRSF7 expression in FFPE human tonsil tissue using CD27 Antibody / T Cell Activation Marker Antibody clone rLPFS2/1611. Strong membranous HRP-DAB brown staining is observed in lymphocyte populations within interfollicular regions and surrounding germinal centers, consistent with CD27 expression on activated T cells and antigen-experienced lymphocytes, while adjacent non-lymphoid structures remain largely negative. The staining pattern highlights T cell activation zones and supports identification of functional immune compartments within tonsillar tissue. Heat-induced epitope retrieval was performed in 10 mM Tris buffer with 1 mM EDTA, pH 9, for 10-20 minutes followed by cooling prior to antibody incubation.



SDS-PAGE analysis of purified, BSA-free CD27 Antibody / T Cell Activation Marker Antibody (clone rLPFS2/1611) as confirmation of integrity and purity.

## Description

CD27, also known as TNF receptor superfamily member 7 (TNFRSF7), is a type I transmembrane receptor expressed on T lymphocytes, memory B cells, and subsets of natural killer cells, where it plays a central role in regulating immune activation, survival, and differentiation. CD27 Antibody / T Cell Activation Marker Antibody (clone rLPFS2/1611) is uniquely positioned for evaluating T cell activation states, enabling detection of CD27 as a costimulatory receptor that is dynamically involved in antigen-driven immune responses. CD27 antibody reagents are widely used in immunology research to assess lymphocyte activation and to monitor functional immune responses across a variety of biological systems.

CD27 antibody, also referred to as TNFRSF7 antibody or CD27 T cell activation antibody in the literature, functions through interaction with its ligand CD70, a key signaling axis that promotes T cell proliferation, cytokine production, and survival following antigen recognition. This costimulatory signaling pathway is critical for effective adaptive immune responses and supports the expansion and persistence of antigen-specific T cell populations. CD27 expression is maintained across multiple T cell subsets but is functionally linked to activation and differentiation status, making it a valuable marker for assessing immune responsiveness.

CD27 Antibody / T Cell Activation Marker Antibody (clone rLPFS2/1611) is particularly valuable for identifying activated T cells within heterogeneous immune populations, where CD27 expression contributes to defining antigen-experienced and functionally engaged lymphocyte subsets. In both tissue-based and suspension-based assays, detection of CD27 supports evaluation of immune activation in contexts such as infection, inflammation, and tumor immunity. The ability to resolve CD27-positive populations enables more precise characterization of immune responses and supports studies of T cell-mediated immunity.

In lymphoid tissues, CD27 expression is enriched within T cell zones and regions containing activated or memory lymphocytes, reflecting its role in sustaining immune responses. In peripheral blood and PBMC-based analyses, CD27 is frequently used to distinguish functional T cell subsets and to monitor changes associated with immune activation or therapeutic intervention. Its expression profile complements other activation and differentiation markers, making it a key component of multiparametric immune profiling strategies.

Beyond its role in normal immune function, CD27-mediated signaling has been implicated in pathological conditions, including chronic infection, autoimmune disease, and tumor immune evasion. Dysregulation of the CD27-CD70 axis can alter T cell activation thresholds and impact immune response quality, further emphasizing the importance of accurately

detecting CD27 in functional studies. Antibodies targeting CD27 therefore play a critical role in understanding immune signaling dynamics and identifying activation-associated changes in lymphocyte populations.

The recombinant mouse monoclonal clone rLPFS2/1611 antibody is designed to provide consistent and reproducible detection of CD27, supporting reliable analysis of T cell activation across diverse experimental systems. Its performance enables clear identification of CD27-positive cells and facilitates studies focused on immune activation, signaling pathways, and lymphocyte function.

Overall, CD27 Antibody / T Cell Activation Marker Antibody (clone rLPFS2/1611) provides robust detection of CD27 in the context of T cell activation, supporting detailed investigation of immune response mechanisms, lymphocyte activation states, and functional immune signaling pathways.

This antibody is part of a broader [CD27 antibody](#) collection designed to support diverse immunological research applications.

## Application Notes

Optimal dilution of the CD27 Antibody / T Cell Activation Marker Antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Human CD27 protein was used as the immunogen for the recombinant CD27 antibody.

## Storage

Store the recombinant CD27 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

## Alternate Names

TNFRSF7 antibody, CD27 T cell activation antibody, CD27 costimulatory receptor antibody, CD27 immune activation marker antibody