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Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody
Mouse Monoclonal Antibody
Catalog # AH13616

Specification

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Product Information

Application	**,14,3,4,**
Primary Accession	P26842
Other Accession	355307
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1**
Calculated MW	**29137**

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Additional Information

Gene ID 939

Other Names
LPFS2; S152; T cell activation antigen S152; T-cell activation antigen CD27; T14; TNFRSF7; TNFSF7; Tp55; Tumor necrosis factor receptor superfamily member 7

Format
200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Protein Information

Name CD27 (HGNC:11922)

Function
Costimulatory immune-checkpoint receptor expressed at the surface of T-cells, NK-cells and B-cells which binds to and is activated by its ligand CD70/CD27L expressed by B-cells (PubMed:28011863). The CD70-CD27 signaling pathway mediates antigen- specific T-cell activation and expansion which in turn provides immune surveillance of B-cells (PubMed:28011863).

Mechanistically, CD70 ligation activates the TRAF2-PTPN6 axis that subsequently inhibits LCK phosphorylation to promote phenotypic and transcriptional adaptations of T-cell memory (PubMed:38354704). In addition, activation by CD70 on early progenitor cells provides a negative feedback signal to leukocyte differentiation during immune activation and thus modulates hematopoiesis (By similarity). Negatively regulates the function of Th2 lymphocytes in the adipose tissue (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein

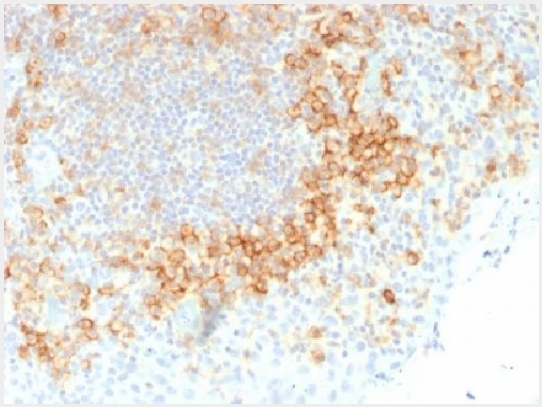
Tissue Location
Found in most T-lymphocytes.

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD27 Monoclonal Antibody (LPFS2/1611).

Anti-CD27 (Tumor Necrosis Factor Receptor Superfamily 7) Antibody - Background

Recognizes a protein of a disulfide-linked 120kDa dimer, identified as CD27. It is expressed on the majority of peripheral T cells, medullary thymocytes, memory-type B cells, and natural killer cells. It is a transmembrane phosphoglycoprotein that belongs to the tumor necrosis factor receptor (TNFR) superfamily. CD27 binds to its ligand CD70, a member of the TNF family, and induces T-cell co-stimulation and B-cell activation. It also interacts with TRAFs and is involved in activation of NF□B and SAPK/JNK and induces apoptosis.