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CD53 (TSPAN25) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 161-2]
Catalog # AH12762

Specification

CD53 (TSPAN25) Antibody - With BSA and Azide - Product Information

Application	**,3,4,**
Primary Accession	P19397
Other Accession	963, 443057
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG2a, kappa**
Calculated MW	**33-55kDa KDa**

CD53 (TSPAN25) Antibody - With BSA and Azide - Additional Information

Gene ID 963

Other Names
Leukocyte surface antigen CD53, Cell surface glycoprotein CD53, Tetraspanin-25, Tspan-25, CD53, CD53, MOX44, TSPAN25

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

Precautions
CD53 (TSPAN25) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD53 (TSPAN25) Antibody - With BSA and Azide - Protein Information

Name CD53

Synonyms MOX44, TSPAN25

Function
Required for efficient formation of myofibers in regenerating muscle at the level of cell fusion. May be involved in growth regulation in hematopoietic cells (By similarity).

Cellular Location
Cell membrane. Cell junction. Membrane; Multi-pass membrane protein. Note=Concentrates in localized microdomains along the plasma membrane at the contact sites between cells of fused myotubes.

Tissue Location
B-cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T-cells

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CD53 (TSPAN25) Antibody - With BSA and Azide - 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

CD53 (TSPAN25) Antibody - With BSA and Azide - Images

CD53 (TSPAN25) Antibody - With BSA and Azide - Background

Recognizes a protein of 33-55kDa, identified as CD53 (Workshop VI; Code N-L033). It is expressed on monocytes and macrophages, dendritic cells, osteoblasts and osteoclasts, and on T and B cells from every stage of differentiation but is absent from platelets, red blood cells. CD53 appears to be the marker with widest reactivity as well as the marker with the strictest specificity to hematopoietic cells. CD53 is a type III membrane with both termini in the cytoplasm and two loops in the extracellular environment. This molecule, in common with other members of tetraspan family, is involved in cellular activation as part of a signal transduction complex involving other membrane glycoproteins. CD53 crosslinking induces calcium flux on human monocyte and B cells. Cross-linking of CD53 promotes activation of resting human B-lymphocytes. This MAb recognizes CD53 transfected cells and partially inhibits T-cell proliferation induced by CD3 antibody (clone: UCHT1).

CD53 (TSPAN25) Antibody - With BSA and Azide - References

Kishimoto T. et al., eds. Leukocyte Typing VI, p517-519 and p1153, Garland Publishing, Inc, New York and London, 1997. | Maecker HT, et al. The tetraspanin superfamily: molecular facilitators. FASEB J 1997, 11:428-442. | Rasmussen AM, et al. Cross-linking of CD53 promotes activation of resting human B lymphocytes. J Immunol 1994, 153:4997-5007. | Szollosi J. et al. Supramolecular complexes of MHC class I, MHC class II, CD20, and tetraspan molecules (CD53, CD81, and CD82) at the surface of a B cell line JY. J Immunol 1996 Oct 1;157(7):2939-2946. | Cao L. et al. Anti-CD53 monoclonal antibody induced LFA-1/ICAM-1-dependent and -independent lymphocyte homotypic cell aggregation Immunobiology 1997, 197:70-81