

36-1950: Monoclonal Antibody to CD53 (TSPAN25)(Clone : 161-2)

Clonality :	Monoclonal
Clone Name :	161-2
Application :	Functional Assay,FACS,IF
Reactivity :	Human
Gene :	CD53
Gene ID :	963
Uniprot ID :	P19397
Format :	Purified
Alternative Name :	CD53,MOX44,TSPAN25
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Stimulated human leukocytes

Description

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 MAbs recognizes CD53 transfected cells and partially inhibits T-cell proliferation induced by CD3 antibody (clone: UCHT1).

Product Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Functional Studies (Order Ab without Azide);Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);