

Anti-CD53 [161-2 (53/2)] Standard Size Ab01542-13.12

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG4-S228P, Kappa

Clone Number: 161-2 (53/2)

Alternative Name(s) of Target: Tetraspanin-25; Leukocyte surface antigen CD53; Cell surface glycoprotein CD53; Tspan-25

UniProt Accession Number of Target Protein: P19397

Published Application(s): Functional Studies, FC, IF

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunizing mice with stimulated human leukocytes.

Specificity: This antibody recognizes human CD53. It does not react with the baboon and horse antigen. Cd53 is a member of tetraspanin family and is involved in cellular activation as part of a signal transduction complex involving other membrane glycoproteins.

Application Notes: This antibody is recommended for the detection and analysis of CD53 via flow cytometry and immunofluorescence. Additionally, one group utilized this antibody for the ligation of the CD53 antigen while researching the potential involvement of tetraspanins (such as CD53) in tumor metastasis (Yunta et al., 2002). Furthermore, CD53 appears to be the marker with widest reactivity as well as the marker with the strictest specificity to hematopoietic cells, as 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.

Antibody First Published in: Yunta et al. Transient activation of the c-Jun N-terminal kinase (JNK) activity by ligation of the tetraspan CD53 antigen in different cell types. Eur J Biochem. 2002 Feb;269(3):1012-21.

[PMID:11846804](#)

Note on publication: This article describes the use and characterization of the 161-2 antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.