

Purified anti-human CD53

Catalog # / Size: 325402 / 100 µg

Clone: HI29

Isotype: Mouse IgG1, κ

Workshop Number: IV N18

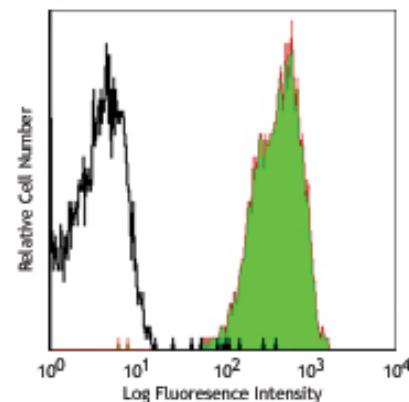
Reactivity: Human, **Cross-Reactivity***: Chimpanzee

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified HI29, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen tissue sections.

Application References:

1. Mollinedo F, *et al.* 1997. *Clin. and Diag. lab. Immunol.* 4:229.
2. Cao L, *et al.* 1997. *Immunobiology* 197(1):70.
3. Amiot M. 1990. *J. Immunol.* 145:4322.
4. Vanherberghen B, *et al.* 2004. *Proc Natl Acad Sci USA.* 101(48):16873.
5. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

Description: CD53 is a 35-42 kD type III tetraspan membrane protein. It is expressed on all leukocytes, but not on platelets or erythrocytes. CD53 is thought to be involved in signal transduction. It has been shown to interact with a number of proteins including IL-4, CD20, CD2, CD9, IL-2, VLA-4, and CD4. Cross-linking of CD53 promotes B cell activation. The CD53 antigen is highly glycosylated and treatment with endoglycosidase F reduces the apparent molecular weight of this protein by approximately 25 kD. The HI29 antibody has been shown to be useful for flow cytometry, and immunohistochemistry (frozen).

Antigen References:

1. Amiot M. 1990. *J. Immunol.* 145:4322.
2. Angelisova P, *et al.* 1990. *Immunogenetics* 32:281.
3. Olweus J, *et al.* 1993. *J. Immunol.* 153:4997.
4. Leukocyte Typing IV. Knapp W, *et al.* (Eds) Oxford University Press (1989)

Related Products:

Product
Purified Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
MOPC-21

Application
FC, ICFC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC
FC, ICFC



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