

Product Data Sheet

PE anti-human CD53

Catalog # / Size: 325406 / 100 tests

Clone: HI29

Isotype: Mouse IgG1, κ

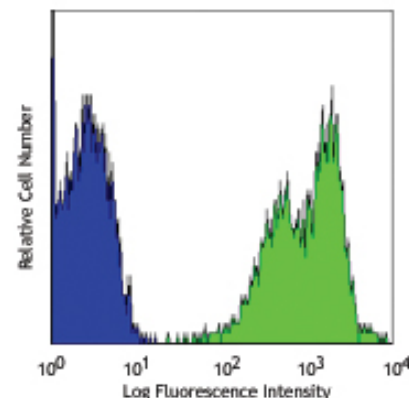
Workshop Number: IV N18

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HI29 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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:

Cell Staining Buffer

PE Mouse IgG1, κ Isotype Ctrl (FC)

Clone

MOPC-21

Application

FC, ICC, ICFC
FC



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