

**Anti-Human CD69 Antibody,
Clone FN50, APC**



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Antibodies

Mouse monoclonal IgG1 antibody against
human CD69, APC-conjugated

Catalog #100-1349

100 Tests

5µL/test

Product Description

This mouse monoclonal antibody (clone FN50, APC-conjugated) reacts with human CD69, a gp28/34 disulfide-bonded homodimer with a molecular weight of 60 kDa under non-reducing conditions. CD69 is a type II transmembrane protein that is constitutively expressed by activated platelets. Studies show that CD69 crosslinking activates various events that lead to platelet activation and aggregation, such as calcium influx, degranulation, and arachidonate metabolism by cyclooxygenase. Upon activation of various lymphocytes, CD69 expression is induced in T cells, thymocytes, B cells, NK cells, neutrophils, and eosinophils, highlighting its role in lymphocyte signal transduction and activation. The protein also plays a role in signal transduction of natural killer cells and platelets. Diseases associated with CD69 dysfunction include coccidioidomycosis and asthma.

Target Antigen Name:	CD69
Alternative Names:	AIM, BL-AC/P26, CLEC2C, EA-1, VEA
Gene ID:	969
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	FN50
Isotype:	IgG1, kappa
Immunogen:	Human B lymphocytes
Conjugate:	APC (Allophycocyanin)

Applications

Verified:	FC
Reported:	FC, IF

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this antibody is 5 µL per 1 x 10 ⁶ cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

1. Lu H et al. (2009). Establishment of an immunoglobulin m antibody-forming cell response model for characterizing immunotoxicity in primary human B cells. *Toxicological Sciences : an official journal of the Society of Toxicology* 112(2): 363–73.
2. Marzio R(1999). CD69 And regulation of the immune function. *Immunopharmacology and Immunotoxicology* 21(3): 565–82.
3. Martin P & Sanchez-Madrid F. (2011) CD69: an unexpected regulator of TH17 cell–driven inflammatory responses. *Science Signaling* 4(165):14.
4. Sakkas L I et al. (1998) T cells and T-cell cytokine transcripts in the synovial membrane in patients with osteoarthritis. *Clinical and Diagnostic Laboratory Immunology* 5(4): 430–7.
5. Testi R et al(1990). CD69 is expressed on platelets and mediates platelet activation and aggregation. *The Journal of Experimental Medicine* 172(3): 701–7.
6. Thakral D et al (2008). Differential expression of the human CD8 beta splice variants and regulation of the M-2 isoform by ubiquitination. *Journal of Immunology* 180(11): 7431–42. (FC, IF)

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2023 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Canada Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.