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Anti-Mouse CD69 Antibody, Clone H1.2F3, APC

Hamster (Armenian) monoclonal antibody against mouse CD69, APC-conjugated

Catalog #100-1618 | 100 µg | 0.2 mg/mL

Product Description

This monoclonal antibody reacts with mouse cluster of differentiation 69 (CD69), a type II transmembrane glycoprotein. CD69 is a 60 kDa disulfide bonded homodimer expressed on activated T cells, B cells, NK cells, neutrophils, and monocytes, where induction of CD69 rapidly occurs upon activation. CD69 is constitutively expressed on platelets and a subset of thymocytes. It functions as a co-stimulatory molecule that plays a role in activating and promoting the proliferation of T cells. Additionally, it can serve as an indicator for thymocytes engaged in T cell receptor (TCR)-mediated positive selection. Furthermore, the protein may act to transmit signals in natural killer cells and platelets. It has also been documented that co-stimulation with the H1.2F3 antibody clone enhances the activation of T cells and macrophages. CD69 dysfunction is associated with diseases such as coccidioidomycosis and asthma.

Target Antigen:	CD69
Alternative Names:	AIM, CLEC2C, EA1, gp34/28, Leu23, MLR3, VEA, very early activation antigen
Gene ID:	12515
Species Reactivity:	Mouse
Host Species:	Hamster
Clonality:	Monoclonal
Clone:	H1.2F3
Isotype:	Armenian hamster IgG
Immunogen:	Mouse dendritic epidermal T cell line Y245
Conjugate:	APC (Allophycocyanin)

Applications

Verified Applications:	FC
Reported Applications:	FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; FCXM: Flow cytometric crossmatch assay; FISH: Fluorescence in situ hybridization; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-F: Immunohistochemistry (frozen-tissue); IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; NMR: Nuclear magnetic resonance spectroscopy; RIA: Radioimmunoassay; WB: Western blotting

Properties

Product Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin
Purification:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC.
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 ≤ 1 µg 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

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