

Anti-Mouse CD27 Antibody, Clone LG.3A10, PE



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Antibodies

Hamster (Armenian) monoclonal IgG1 antibody against human, mouse, rat CD27, PE-conjugated

Catalog #60160PE	200 µg	0.2 mg/mL
#60160PE.1	50 µg	0.2 mg/mL

Product Description

The LG.3A10 antibody reacts with CD27, a 45 - 55 kDa member of the tumor necrosis factor receptor superfamily. CD27 is found on peripheral T cells, memory B cells, and NK cells and in mice has been found on most thymocytes, except CD46-CD8- precursors. CD27 and its ligand CD70 are involved in multiple aspects of T cell biology, including the costimulation and expansion of CD4+ and CD8+ T cells and differentiation to memory CD8+ T cells. CD27 interacts with TRAF family members, resulting in enhanced cellular proliferation and the induction of anti-apoptotic proteins. Additionally, CD27 plays important roles in T cell – B cell interactions and the maturation of effector T cells. The expansion of activated B cells and their differentiation to plasma cells is also reported to be enhanced by CD27.

Target Antigen Name:	CD27
Alternative Names:	LPFS2, S152, T14, TNFRSF7, Tp55
Gene ID:	21940/939/500318
Species Reactivity:	Human, Mouse, Rat
Host Species:	Hamster (Armenian)
Clonality:	Monoclonal
Clone:	LG.3A10
Isotype:	IgG1, kappa
Immunogen:	Armenian hamster fibroblast line ARHO12 transfected with mouse Cd27 cDNA
Conjugate:	PE

Applications

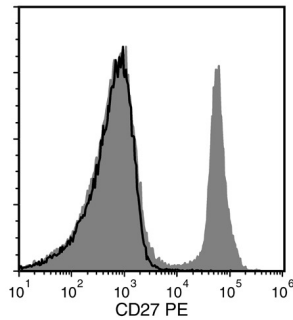
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Naive B Cell Isolation Kit (Catalog #17254) and EasySep™ Human Naive B Cell Enrichment Kit (Catalog #19254).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10 ⁶ cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD27 Antibody, Clone LG.3A10, PE (filled histogram) or an Armenian hamster IgG isotype control antibody, PE (solid line histogram).

Related Products

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

References

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