

## Anti-Human CD24 Antibody, Clone 32D12, FITC

# Antibodies

Mouse monoclonal IgG1 antibody  
against human CD24, FITC-conjugated

Catalog #60134FI

100 Tests    20 µL/test



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## Product Description

The 32D12 antibody reacts with CD24, a 35 - 50 kDa glycosylphosphatidylinositol (GPI)-linked sialoglycoprotein that is anchored to the plasma membrane and is glycosylated variably depending on cell type. The function of CD24 has yet to be fully determined but it is believed to play a role in lymphocyte development, particularly in acting as a costimulatory molecule for CD4+ T cells and in regulating B cell proliferation, activation, differentiation, and apoptosis. CD24 may also function in cell adhesion and metastasis, likely through binding of CD62P (P-Selectin). CD24 is expressed by follicular dendritic cells, and various epithelial and hematopoietic cell types, including granulocytes, erythrocytes, most B cells, and subsets of T lymphocytes. As it is expressed throughout B cell development but is lost after differentiation into the plasma cell stage, CD24 may be used as a B cell differentiation marker. Furthermore, CD24 also has the potential to be a marker for tumor prognosis and diagnosis as it is highly expressed in numerous cancers including ovarian, breast, prostate, bladder, renal, and lung, as well as neuroblastomas and various hematological malignancies. Reportedly, the 32D12 antibody recognizes an epitope that is distinct from those recognized by clones VIB-C5, VIB-E3, LC66, BA-1, ML5, OKB2 and SN3 A5-2H10.

Target Antigen Name:	CD24
Alternative Names:	CD24a, Heat stable antigen, HSA, Ly-52, Nectadrin, Small cell lung carcinoma cluster 4 antigen
Gene ID:	100133941
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	32D12
Isotype:	IgG1, kappa
Immunogen:	Human pre-B lymphoblastic leukemia cell line Reh
Conjugate:	FITC

## Applications

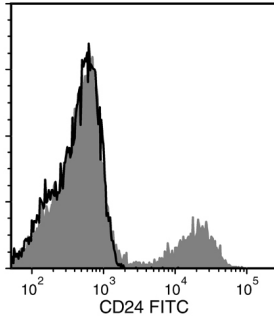
Verified:	FC
Reported:	FC

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 saline containing 0.1% bovine serum albumin and < 0.1% sodium azide
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. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	For flow cytometry the suggested use of this antibody is 20 µL per 1 x 10 <sup>6</sup> cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs; gated on lymphocytes) labeled with Anti-Human CD24 Antibody, Clone 32D12, FITC (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60070FI; 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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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