

Technical Data Sheet

FITC Mouse Anti-Human CD244

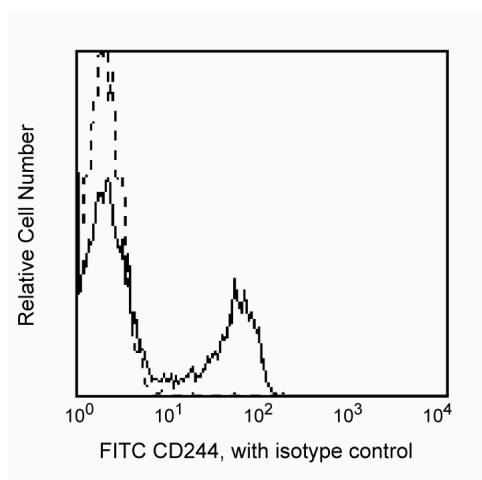
Product Information

Material Number:	550815
Alternate Name:	2B4
Size:	100 tests
Vol. per Test:	20 µl
Clone:	2-69
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 66 kDa single chain transmembrane glycoprotein. 2B4 belong to the immunoglobulin superfamily of proteins and is structurally related to CD2-like molecules. It was originally identified in the mouse as a non-MHC-restricted cytotoxicity mediator present on NK cells and CD8+ T cells. In humans, 2B4 is expressed on NK cells, CD8+ T cells, monocytes and basophils, suggesting a broader role for 2B4 in leukocyte activation and possibly a role of immunomodulation in other receptor-ligand interactions to enhance leukocyte activation. 2B4 has been clustered as CD244 in the VIIth HLDA workshop.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of CD244 (2-69) reactivity on peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555573	FITC Mouse IgG2a, κ Isotype Control	100 tests	G155-178

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100-μl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
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- Nakajima H, Cella M, Langen H, Friedlein A, Colonna M. Activating interactions in human NK cell recognition: the role of 2B4-CD48. *Eur J Immunol*. 1999; 29(5):1676-1683.(Biology)
- Sivori S, Parolini S, Falco M, et al. 2B4 functions as a co-receptor in human NK cell activation. *Eur J Immunol*. 2000; 30(3):787-793.(Biology)
- Tangye SG, Lazetic S, Woollatt E, Sutherland GR, Lanier LL, Phillips JH. Cutting edge: human 2B4, an activating NK cell receptor, recruits the protein tyrosine phosphatase SHP-2 and the adaptor signaling protein SAP. *J Immunol*. 1999; 162(12):6981-6985.(Biology)