

## Technical Data Sheet

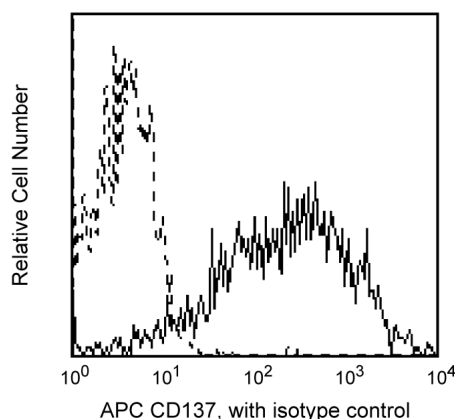
## APC Mouse Anti-Human CD137

## Product Information

Material Number:	550890
Alternate Name:	4-1BB
Size:	100 tests
Vol. per Test:	20 µl
Clone:	4B4-1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI C-7
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

Reacts with 4-1BB, a 30 kDa glycoprotein expressed on activated T cells. 4-1BB can be detected on Con A or PHA-stimulated peripheral blood T cells (CD4+ and CD8+) and on CEM cells (human T-cell leukemia) following 2 day PMA and ionomycin stimulation, but not on resting T cells. 4-1BB is reported to be a participant in T-cell activation, being responsible for rescuing T cells from activation-induced apoptosis, upregulation of Th1-type, T-helper cells, downregulation of Th2-type cytokine production, and induction of cell adhesion to fibronectin.



Profile of Con A-stimulated peripheral blood mononuclear cells (PBMC) 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 to APC under optimum conditions, and unconjugated antibody and free APC were 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
555751	APC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  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/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/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.

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5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

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