ARG42319
anti-CD137 antibody [4B4-1] (APC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [4B4-1] recognizes CD137
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The mouse monoclonal antibody 4B4-1 recognizes an extracellular conformational epitope on CD137, an approximately 40 kDa type I transmembrane protein of the TNFR family expressed mainly on activated T cells.
Host	Mouse
Clonality	Monoclonal
Clone	4B4-1
Isotype	IgG1, kappa
Target Name	CD137
Species	Human
Immunogen	Recombinant Human CD137 ectodomain.
Conjugation	APC
Alternate Names	ILA; CD137; T-cell antigen 4-1BB homolog; CDw137; T-cell antigen ILA; 4-1BB; CD antigen CD137; Tumor necrosis factor receptor superfamily member 9; 4-1BB ligand receptor

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 100 µl of whole blood or 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

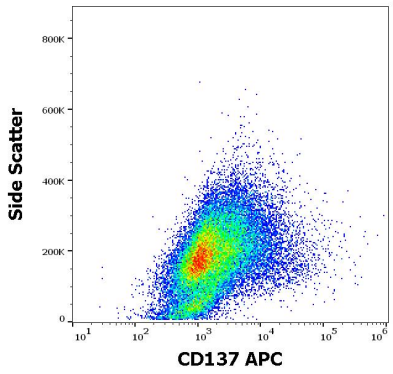
Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

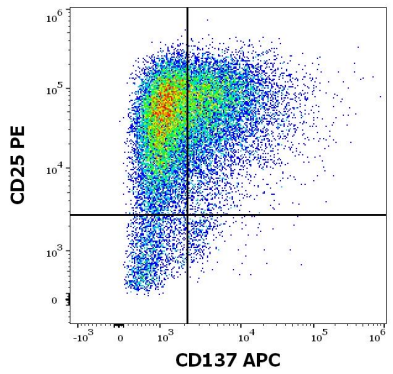
Gene Symbol	TNFRSF9
Gene Full Name	tumor necrosis factor receptor superfamily, member 9
Background	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB. [provided by RefSeq, Jul 2008]
Function	Receptor for TNFSF9/4-1BBL. Possibly active during T cell activation. [UniProt]
Calculated Mw	28 kDa
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



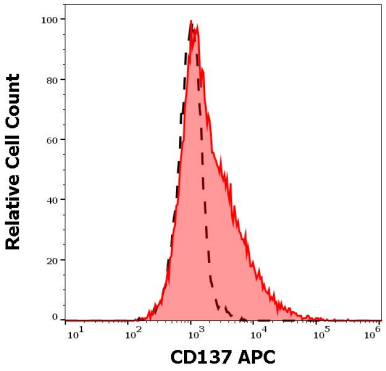
ARG42319 anti-CD137 antibody [4B4-1] (APC) FACS image

Flow Cytometry: Human PHA stimulated peripheral blood mononuclear cell suspension stained with ARG42319 anti-CD137 antibody [4B4-1] (APC) at 10 µl / 10^6 cells in 100 µl of cell suspension.



ARG42319 anti-CD137 antibody [4B4-1] (APC) FACS image

Flow Cytometry: Human peripheral blood mononulcear cells stained with ARG42319 anti-CD137 antibody [4B4-1] (APC) at 10 µl / 10^6 cells in 100 µl of cell suspension and ARG53801 anti-CD25 antibody [MEM-181] (PE) at 20 µl / 10^6 cells in 100 µl of cell suspension.



ARG42319 anti-CD137 antibody [4B4-1] (APC) FACS image

Flow Cytometry: Human PHA stimulated peripheral blood mononuclear cell suspension. Separation of cells stained with ARG42319 anti-CD137 antibody [4B4-1] (APC) at 10 µl / 10^6 cells in 100 µl of cell suspension (red-filled) from cells stained with ARG65336 Mouse IgG1 Kappa Isotype Control antibody [MOPC-21] (APC) at 1 µg/ml dilution (black-dashed).