

ARG53838
anti-CD38 antibody [HIT2] (PE)Package: 100 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [HIT2] recognizes CD38
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone HIT2 reacts with CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells. HLDA III; WS Code T 155
Host	Mouse
Clonality	Monoclonal
Clone	HIT2
Isotype	IgG1
Target Name	CD38
Species	Human
Immunogen	Human thymocytes in foetus
Conjugation	PE
Alternate Names	cADPr hydrolase 1; ADPRC 1; EC 3.2.2.6; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase; Cyclic ADP-ribose hydrolase 1; ADPRC1; EC 2.4.99.20; ADP-ribosyl cyclase 1; 2'-phospho-cyclic-ADP-ribose transferase; CD antigen CD38; T10; 2'-phospho-ADP-ribosyl cyclase; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1

Application Instructions

Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>FACS</td><td>20 µl / 10⁶ cells</td></tr></tbody></table>	Application	Dilution	FACS	20 µl / 10 ⁶ cells
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FACS	20 µl / 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 Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

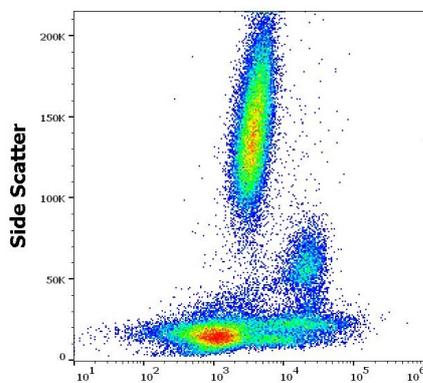
repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

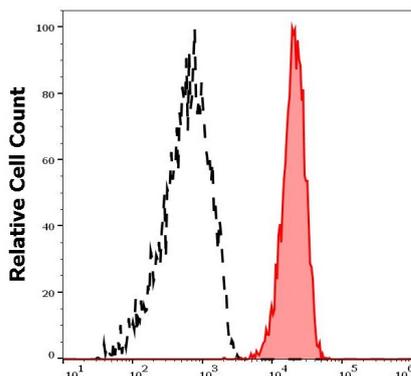
Database links	GeneID: 952 Human Swiss-port # P28907 Human
Gene Symbol	CD38
Gene Full Name	CD38 molecule
Background	CD38 (NAD ⁺ glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD ⁺ glycohydrolase converting NAD ⁺ into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration.
Function	Synthesizes the second messengers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system. [UniProt]
Research Area	Cancer antibody; Developmental Biology antibody; Immune System antibody; Metabolism antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody
Calculated Mw	34 kDa

Images



ARG53838 anti-CD38 antibody [HIT2] (PE) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG53838 anti-CD38 antibody [HIT2] (PE) (20 µl reagent / 100 µl of peripheral whole blood).



ARG53838 anti-CD38 antibody [HIT2] (PE) FACS image

Flow Cytometry: Separation of human monocytes (red-filled) from CD38 negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG53838 anti-CD38 antibody [HIT2] (PE) (20 µl reagent / 100 µl of peripheral whole blood).