

Mouse anti-Human CD38 Monoclonal Antibody | anti-CD38 antibody

Anti-Hu CD38 PE-DyLight 594

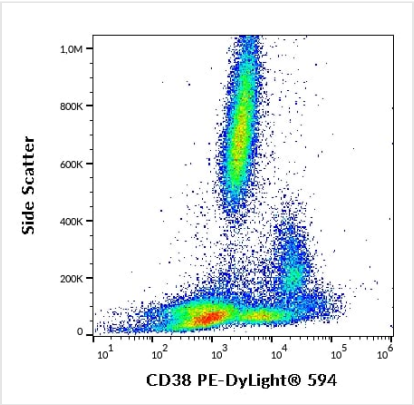
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128588	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

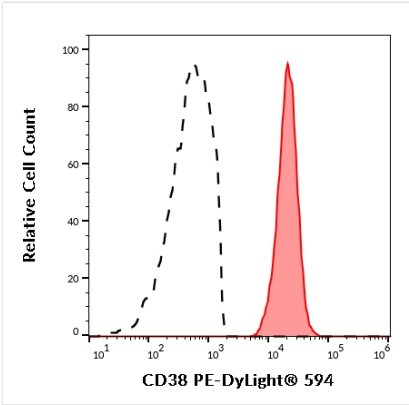
CD38; Monoclonal Antibody; Anti-Hu CD38 PE-DyLight 594; CD38 molecule; ADPRC1; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; NAD(+) nucleosidase; ADP-ribosyl cyclase 1; anti-CD38 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	HIT2
Specificity	The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of 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.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-DyLight 594 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Sequence Length	300
Applicable Applications for anti-CD38 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human thymocytes in foetus
Conjugation	PE-DyLight 594
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD38 (HIT2) PE-DyLight® 594 (4 ul reagent / 100 ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Separation of human CD38 positive monocytes (red-filled) from human CD38 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD38 (HIT2) PE-DyLight® 594 (4 ul reagent / 100 ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD38 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55977782
NCBI GeneID	952
UniProt Accession #	P28907
NCBI Official Full Name	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
NCBI Official Synonym Full Names	CD38 molecule
NCBI Official Symbol	CD38
NCBI Official Synonym Symbols	ADPRC1; ADPRC 1
NCBI Protein Information	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Protein Name	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Gene Name	CD38
UniProt Synonym Gene Names	ADPRC 1; cADPr hydrolase 1
UniProt Entry Name	CD38_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.