Datasheet for ABIN94084

anti-CD38 antibody (Biotin)

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Overview

Quantity:	0.1 mg
Target:	CD38
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD38 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human thymocytes in foetus
Clone:	HIT2
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of CD38, 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. Its binding is blocked by daratumumab.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

Target:	CD38
Abstract:	CD38 Products
Background:	CD38 Molecule,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.,ADPRC1, cADPr hydrolase 1, T10, NAD(+) nucleosidase, ADP-ribosyl cyclase 1
Gene ID:	952
UniProt:	P28907

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

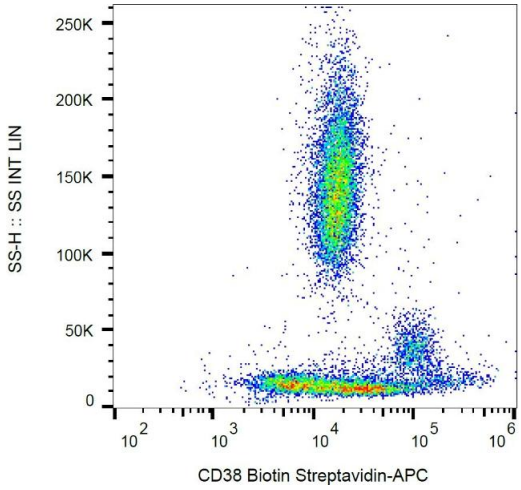
Product cited in:

Všianská, Říhová, Varmužová, Suská, Kryukov, Mikulášová, Kupská, Penka, Pour, Adam, Hájek: " Analysis of B-cell subpopulations in monoclonal gammopathies." in: **Clinical lymphoma, myeloma & leukemia**, Vol. 15, Issue 4, pp. e61-71, (2015) (PubMed).

Rozková, Novotná, Pytlík, Hochová, Kozák, Bart?nková, Spísek: "Toll-like receptors on B-CLL cells: expression and functional consequences of their stimulation." in: **International journal of cancer. Journal international du cancer**, Vol. 126, Issue 5, pp. 1132-43, (2010) (PubMed).

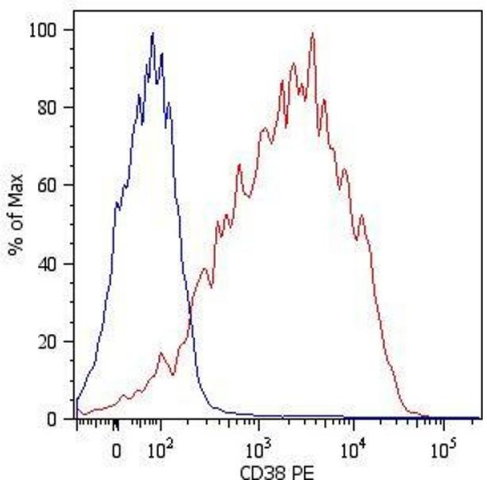
Kolar, Mehta, Pelayo, Capra: "A novel human B cell subpopulation representing the initial germinal center population to express AID." in: **Blood**, Vol. 109, Issue 6, pp. 2545-52, (2007) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-human CD38 (HIT2) biotin / streptavidin-APC.



Flow Cytometry

Image 2. Surface staining of PHA stimulated human peripheral blood lymphocytes with anti-human CD38 (HIT2) PE.