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30-1242: Anti-CD38 Monoclonal Antibody (Clone:HIT2)

Clonality :	Monoclonal
Clone Name :	HIT2
Application :	FACS
Reactivity :	Human
Gene :	CD38
Gene ID :	952
Uniprot ID :	P28907
Format :	Purified
Alternative Name :	CD38
Isotype :	Mouse IgG1
Immunogen Information :	Human thymocytes in foetus

Description

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.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry Western Blotting *Recommended dilution:* 2 µg/ml
Positive control: RAJI human cell line
Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Boil for 5 min.
Immunohistochemistry *Recommended dilution:*10 µg/ml
Immunohistochemistry (frozen sections)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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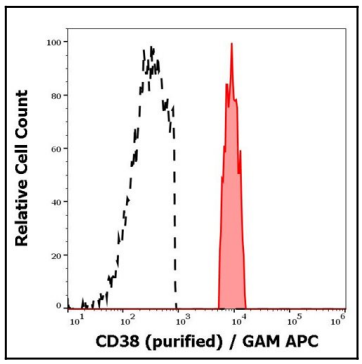


Figure 1: Flow Cytometry analysis of PBMC using anti h CD38 purified antibody

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