

## 30-1242AC-Cy7: Anti-CD38 Monoclonal Antibody (Clone:HIT2) APC-Cy™ 7

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

### Description

CD38 (NAD<sup>+</sup> 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<sup>+</sup> glycohydrolase converting NAD<sup>+</sup> 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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	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:* **Purified antibody is conjugated with activated tandem dye of allophycocyanin-cyanine 7 (APC-Cy™ 7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.**

**Immunohistochemistry** *Recommended dilution: 10 µg/ml*

**Immunohistochemistry (frozen sections)**

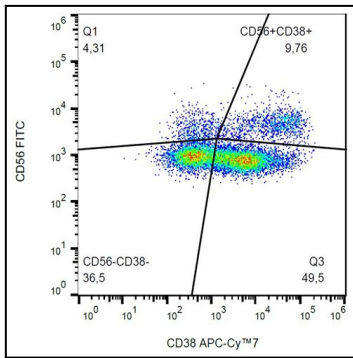


Figure 1: Flow cytometry analysis (surface staining) of human peripheral blood with anti-human CD38 (HIT2) APC-Cy™ 7.