

## Technical Data Sheet

### APC Conjugated Human CD38 Protein (C-His)

**Catalog Number:** 800103, 800104

**Size:** 25 ug, 100 ug

**Target Name:** CD38, T10, cADPr 1

**Regulatory Status:** RUO

#### Product Details

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**Application:** FC

**Format:** Liquid, APC

**Expression Host:** HEK293

**Species:** Human

**Sources:** Recombinant Human CD38 (Val43-Ile300) with C-terminus His is expressed in HEK293 cell and conjugated to APC.

**Accession Number:** P28907

**Molecular Weight:** The protein has a predicted molecular weight of 33kDa. Under DTT-reducing conditions, it migrates at approximately 50 kDa on SDS-PAGE prior to APC conjugation.

**Affinity Tag:** C-His

**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein

**Endotoxin level:** Not tested

**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### Background Information

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CD38 (ADP-ribosyl cyclase 1) is a Type II membrane protein involved in calcium signaling through the conversion of NAD(P)<sup>+</sup> into cADPR, NAADP<sup>+</sup>, and ADP-ribose. It is broadly expressed in immune cells and various tissues, and is linked to immune regulation, cancer, and metabolic disorders. CD38 also serves as a prognostic marker in leukemia.