

## Technical Data Sheet

### APC conjugated Mouse CD200R1 (C-His)

**Catalog Number:** 816203, 816204  
**Size:** 25 ug, 100 ug  
**Target Name:** CD200R, CRTR2, MOX2R, OX2R  
**Regulatory Status:** RUO

#### Product Details

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**Application:** FC  
**Format:** Liquid, APC  
**Expression Host:** CHO  
**Species:** Mouse  
**Sources:** Recombinant Mouse CD200R1 (Thr26 - Pro238) with C-terminus His-tag is expressed in CHO cell and conjugated to APC.  
**Accession Number:** Q9ES57  
**Molecular Weight:** The protein has a predicted molecular weight of 24.7 kDa. Under DTT-reducing conditions, it migrates at approximately 50 kDa on SDS-PAGE prior to 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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The cluster of differentiation (CD) system is essential for immunophenotyping, with over 320 unique CD molecules and subclusters identified to date. These CD molecules play various roles in immune cells, either acting as receptors or ligands to initiate signaling cascades that alter cell behavior, or serving non-signaling functions like cell adhesion. CD200 receptor 1 (CD200R1), an isoform of CD200 receptors, is a cell surface glycoprotein expressed on myeloid lineage cells. It serves as a receptor for the OX-2 membrane glycoprotein, and the interaction between CD200R1 and OX-2 functions as a downregulatory signal for myeloid cells, playing a role in immune regulation.