

## Technical Data Sheet

### APC conjugated Human GITR (TNFRSF18) (C-His)

**Catalog Number:** 811503, 811504

**Size:** 25 ug, 100 ug

**Target Name:** TNFRSF18, AITR, GITR, CD357

**Regulatory Status:** RUO

#### Product Details

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**Application:** FC

**Format:** Liquid, APC

**Expression Host:** CHO

**Species:** Human

**Sources:** Recombinant Human GITR/TNFRSF18 (Gln26-Glu161) with C-terminus His-tag is expressed in CHO cell and conjugated to APC.

**Accession Number:** Q9Y5U5

**Molecular Weight:** The protein has a predicted molecular weight of 16.1 kDa. Under DTT-reducing conditions, it migrates at approximately 25 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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GITR (glucocorticoid-induced TNFR-related protein), also known as TNFRSF18 or CD357, is a 25 kD member of the TNF receptor superfamily that acts as the receptor for TNFSF18 (GITRL). It is primarily expressed on activated T cells and regulatory T cells and is upregulated upon T cell receptor engagement. GITR plays a key role in immune regulation by influencing T cell proliferation, TCR-mediated apoptosis, and the function of regulatory T cells, thereby contributing to the maintenance of self-tolerance. GITR signaling activates NF- $\kappa$ B via the TRAF2/NIK pathway and interacts with TRAF1–3. It is also implicated in T cell–endothelial cell interactions and the pathogenesis of autoimmune diseases.