

# Anti-Human CD271-149Sm

Catalog: 3149017B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human,

Clone: C40-1457

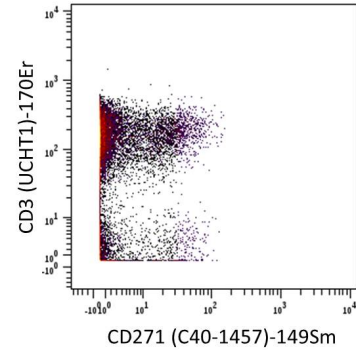
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 170Er-anti-CD3 (UCHT1) and 149Sm-anti-CD271 (C40-1457). Lymphocytes are displayed in the analysis.

## Description

The C40-1457 monoclonal antibody specifically binds to the nerve growth factor receptor (NGFR) also known as CD271. CD271 is 75 kDa type I transmembrane glycoprotein likewise known as TNFRSF16 that belongs to the tumor necrosis factor receptor (TNFR) superfamily. CD271 has been found localized to neuronal axons, Schwann cells, and perineural cells of peripheral nerves and is also expressed in some epithelial, mesenchymal and lymphoid tissues. NGFR is the receptor for nerve growth factor (NGF), a polypeptide that is essential for normal development of the nervous system. NGF binds to two distinctive surface receptors, the p140[prototr] and p75[NGFR]. NGF promotes survival and differentiation of sympathetic and sensory neurons during embryological development of the peripheral nervous system. There is evidence that NGFR interaction with its ligand, NGF, may play a role in immunoregulation. It has also been reported that NGF may function as a B-cell growth factor.

## References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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