PERFORMANCE DATA SHEET
1819

Human CD271 NGFR(p75)-muIg *Fusion Protein**

For maximal recovery of contents please quick spin vial before opening

CATALOG#: 527-020
QUANTITY: 25 µg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble fusion protein consisting of the extracellular (195aa) domain of human NGFR fused to murine IgG2a Fc (233aa).
N-teminal sequence: (29)KEACP
Transfectant Cell Line: CHO

INFORMATION: The p75 low affinity human Nerve Growth Factor receptor CD271(NGRF, TNFRSF16) is expressed on a variety of tissue types including a subset of splenic and nodal lymphocytes. Presence of this receptor supports uptake of intracellular calcium, but not mobilization (3). CD271 is a stem cell marker for hematopoietic(5,6,7), stromal (8) as well as cancer cells (9,10). CD271 has been reported to inhibit differentiation of mesenchymal cells into various lineages(11).
NGFR-muIg fusion protein binds to recombinant NGFβ coated plates in EIA.

REFERENCES: 1) Brodie C, E W Gelfand (1992) *Journal of Immunology*. **148**(11): 3492-3497. 2) Fantini F, O. Johansson (1992) *Journal of Investigative Dermatology*. **99**(6): 734-742. 3) Jiang H, G Gurogg, et al.(1999) *J Biol Chem* **274**(37): 26209-16. 4) Khwaja F, D Djakiew, et al (2004) *Cancer Res* **64**(17): 6207-13. 5) Flores-Torales E, Cuneo-Pareto S, et al. (2010) *Folia Histochem Cytobiol*. **48**(4):682-6. 6) Kuçi S, Bader P, et al. (2010) *Haematologica*. **95**(4):651-9. 7) Hermida-Gómez T, Blanco FJ, et al. (2011) Tissue Eng Part A. 17(7-8):1169-79. 8) Jones E, McGonagle D, et al. (2010) *Arthritis Rheum*. **62**(7):1944-54. 9) Boiko AD, Weissman IL. Et al. (2010) Nature 466(7302):133-7. 10) Civenni G, Sommer L, et al. (2011) Cancer Res. 71(8):3098-109. 11) Mikami Y, Honda MJ, et al. (2011) Stem Cells Dev. 20(5):901-13.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography.

PERFORMANCE: Identity of NGFR-muIg was confirmed by n-terminal sequencing (KEACP). NGFR-muIg was reactive in EIA using plates coated with 1 µg/ml NGFβ, and secondary detection with GAM/HRP. A signal was observed using 100 ng/ml NGFR-muIg.

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