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Product Data Sheet

PE anti-human CD271 (NGFR)

Catalog # / Size: 345105 / 25 tests
345106 / 100 tests

Clone: ME20.4

Isotype: Mouse IgG1, κ

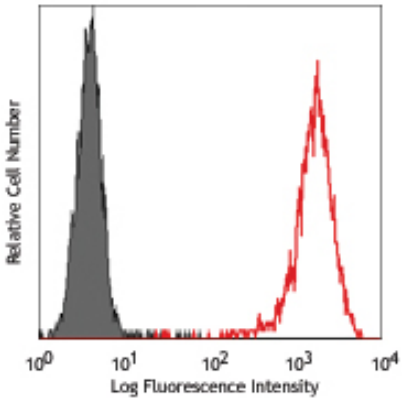
Immunogen: WM245 melanoma cells

Reactivity: Human, **Cross-Reactivity:** Monkey, Raccoon, Sheep, Cat, Dog, Pig, Rabbit

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human neuroblastoma cell line SK-N-MC stained with ME20.4 PE

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications for the relevant formats include: immunoprecipitation, Western blotting, immunohistochemical staining of frozen or paraffin embedded tissue sections, and blocking of NGF binding.

Application References:
1. Alonzo H, *et al.* 1984. *P. Natl. Acad. Sci. USA* 81:6681.
2. Cattoretti G, *et al.* 1993. *Blood* 81:1726.
3. Kamke MR, *et al.* 2005. *Hear Res.* 206:89.

Description: CD271, also known as p75NTR, TNFRSF16, p75(NTR), Gp80-LNGFR, and NGFR, is a type I transmembrane protein with a MW of 75 kD. It is expressed by many cell types including neurons, Schwann cells, mesenchymal stem/stromal cells, follicular dendritic cells and melanocytes. The extracellular portion contains four TNFR-Cys repeats that form the binding domain for its ligands (NGF, BDNF, NTF3, and NTF4). The intracellular portion of CD271 contains a death domain, which interacts with TRAF2, TRAF4, TRAF6, PTPN13 and RANBP9, to promote cell apoptosis, and to regulate cell differentiation and neurogenesis.

Antigen References:
1. Friedman MJ, *et al.* 2009. *J. Biol. Chem.* 284:27944.
2. Rock JR, *et al.* 2009. *Proc Natl Acad Sci USA.* 106:12771.
3. Kidd SK, *et al.* 2008. *Brain Res.*1195:113.
4. Peters EM, *et al.* 2007. *Am J Pathol.* 171:1872.
5. Jansen P, *et al.* 2007. *Nat Neurosci.* 10:1449.

Related Products:

Product	Clone	Application
PE Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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