

CD271 (ME20.4)

Type	Size	Catalog number
Unconjugated	100µg	111901
	500µg	111903
FITC	25 tests	111914
	100 tests	111915
	200 tests	111916

Antigen:	CD271
Immunogen:	WM245 melanoma cells
Host/Isotype:	Mouse, IgG1, k
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃ (unconjugated) PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA (conjugated)
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone ME20.4, a mouse monoclonal antibody selectively binds with a ~75 kD type I transmembrane protein known as CD271. It is also known as the nerve growth factor receptor (NGFR) and a member of the tumor necrosis factor receptor (TNFR) superfamily. Various cell types express CD271 including neuronal axons, Schwann cells, mesenchymal stem cells, epithelial cells, etc. Increased levels of CD271 were observed in brain metastatic melanoma cells and in lung-metastasizing melanoma cells. It is a transmembrane signaling receptor involved in negative cell cycle regulation and is specific for neural crest origin.

References

1. Baker D, et al. 1989. Cancer Res. 49:4142-4146
2. Guo, R et al. 2014. Int J Clin Pathol. 7:8947-8951.
3. Tomellini, E, et al. 2014. Cell Mol Life Sci. 71:2467-2481
4. Barilani, M, et al. 2018. Scientific Report (Nature). 8:9321-9331

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.