

TECHNICAL DATA SHEET

CD154 (5C8)

Туре	Size	Catalog number
iFluor ™488	25 tests	1068114
	100 tests	1068115
	200 tests	1068116

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Antigen: CD154

Immunogen:Human D1.1 T cell lineHost/Isotype:Mouse, IgG2a, κ

Reactivity: Human

Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)

Formulation: PBS, pH7.2, 0.09% NaN₃ (unconjugated, Biotin)

PBS, pH7.2, 0.09% NaN₃, 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 Jurkat cell line such that $0.5\mu g$ (unconjugated, Biotin) or $5\mu l$ (conjugated) of these products are sufficient for staining 1 million cells in a $100\mu l$ staining volume or $100\mu l$ of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone 5C8, a mouse monoclonal antibody, specifically recognizes a ~30-33 kDa activation-induced human CD4+ T cells surface molecule known as CD154 or CD40 ligand (CD40L). The CD40 interacts with CD154 through T cell-B cell activating molecule, gp39, TNF cytokine related activation protein. CD154 is primarily expressed on the surface of activated CD4+ T cells but can also be expressed by platelets, mast cells, macrophages, basophils, NK cells, B cells, CD8+ T cells as well as non-hematopoietic cells including smooth muscle cells, endothelial cells, and epithelial cells. CD154 plays important roles in the pathogenesis of certain blood cancer such as the CD4+ T cells of patients with CLL fail to express surface CD154 antigen even after CD3 ligation, and proximal and distal activation events are required for the neonatal CD4+ T cells for the CD154 gene transcription to establish the normal immune system.

References

- 1. Yellin, MJ., et al. 1995. J. Exp. Med. 182:1857-1864
- 2. Grammer, AC., et al. 1995. J. Immunol. 154:4996-5010.
- 3. Cantwell, M. et al. 1997. Nature Medicine. 3:984-989.
- 4. Jullien, P, et al. 2003. Int. Immunol. 15:1461-1472.

Terms and Conditions

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