

CD11a (TS1/22)

Type	Size	Catalog number
Unconjugated	100µg	107201
	500µg	107203
FITC	25 tests	107214
	100 tests	107215
	200 tests	107216

Antigen:	CD11a
Immunogen:	Human HLA-DRCTL line cytolytic T-lymphocytes
Host/Isotype:	Mouse, IgG1, κ
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 recognizes a 170-180 kDa alpha chain of a type I transmembrane glycoprotein also known as CD11a or LFA-1a. CD11a non-covalently associates with integrin β₂ (CD18) to form LFA-1. CD11a is abundantly expressed on all leukocytes, including B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils but is not expressed by the non-hematopoietic tissues and platelets. Up-regulation of CD11a on activated lymphocytes is required to induce the immune response. Absence or reduced CD11a expression on tumor cells helps to escape from regular immune surveillance and may be a reason for *in vivo* tumor generation.

References

1. Clayberger C et al., Lancet, Sep 5:533-536 (1987).
2. Dustin ML et al., Nature, 341:619-624 (1989).
3. Inghirami G et al., Blood, 72:1431-1434 (1988).
4. Ogawa T et al., Eu. J. Immunol. 32:2543-2550 (2002).

Terms and Conditions

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