

### 43-1085: Monoclonal Antibody to Mouse CD4 NALE™ Purified (Clone: GK1.5)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	GK1.5
<b>Application :</b>	FACS
<b>Reactivity :</b>	Mouse
<b>Gene :</b>	Cd4
<b>Gene ID :</b>	12504
<b>Uniprot ID :</b>	P06332
<b>Alternative Name :</b>	T-cell differentiation antigen L3T4, T-cell surface antigen T4/Leu-3
<b>Isotype :</b>	Rat IgG2b, kappa

#### Description

The GK1.5 monoclonal antibody specifically binds with the mouse CD4 molecule, also known as L3T4, a 55 kDa differentiation antigen which binds to the MHC class II. CD4 is expressed on most thymocytes, a subpopulation of mature T lymphocytes, dendritic cells, pluripotent hematopoietic stem cells, B cell precursors, and lymphoid precursors inside the thymus. It is also expressed on the mouse egg cell membrane, enhancing adhesion to MHC class II bearing sperm. By interaction with MHC class II on the surface of APC, CD4 initiates the development of T lymphocytes and helps the optimum functioning of mature T lymphocytes. The binding of the GK1.5 antibody blocks the binding of the Anti-Mouse CD4 RM4-5 antibody.

#### Product Info

<b>Amount :</b>	500 µg
<b>Content :</b>	2 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
<b>Storage condition :</b>	The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.

#### Application Note

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.