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# anti-LAT2 antibody (Cytoplasmic Domain) (PE)

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Quantity:	0.1 mg	
Target:	LAT2	
Binding Specificity:	AA 91-243, Cytoplasmic Domain	
Reactivity:	Human, Mouse	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This LAT2 antibody is conjugated to PE	
Application:	Flow Cytometry (FACS)	

### **Product Details**

Immunogen:	Recombinant cytoplasmic domain (aa 91-243) of human NTAL.
Clone:	NAP-07
Isotype:	lgG1
Specificity:	The antibody NAP-07 reacts with an intracellular epitope of Non-T cell activation linker (NTAL), also known as LAB (linker of activated B cells), a 25 - 30 kDa transmembrane adaptor protein associating with lipid raft components in the plasma membrane of B lymphocytes, NK cells and myeloid cells.
Cross-Reactivity (Details):	Mouse, Human, Other not tested
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.  Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

# Target Details

Target:	LAT2	
Alternative Name:	NTAL / LAB (LAT2 Products)	
Background:	Linker for activation of T cells family member 2,NTAL (non-T cell activation linker), also known	
_	as LAB (linker for activation of B cells), is a 30 kDa double-palmitoylated transmembrane	
	adaptor protein expressed by B cells, NK cells, mast cells and macrophages. It is a negative	
	regulator of early stages of BCR-dependent B cell signaling and serves as a negative regulator	
	also in mast cells. However, in mast cells, NTAL also contributes to some activation processes	
	partially overlapping with LAT function.,LAB, LAT2	
Gene ID:	56743	
UniProt:	Q9JHL0	
Pathways:	Fc-epsilon Receptor Signaling Pathway, BCR Signaling	
Application Details		
Application Notes:	Flow cytometry: Intracellular staining, recommended dilution: 1-5 µg/mL, positive tissue: RAJI	
	human lymphoma cell line, RAMOS human lymphoma cell line.	
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The	
	conjugate is purified by size-exclusion chromatography.	
Restrictions:	For Research Use only	
Handling		
Concentration:	0.1 mg/mL	
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Handling Advice:	Do not freeze.	
	Avoid prolonged exposure to light.	
Storage:	4 °C	
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.	

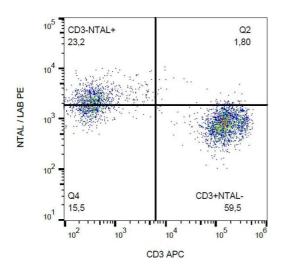
Product cited in:

Tkaczyk, Horejsi, Iwaki, Draber, Samelson, Satterthwaite, Nahm, Metcalfe, Gilfillan: "NTAL phosphorylation is a pivotal link between the signaling cascades leading to human mast cell degranulation following Kit activation and Fc epsilon RI aggregation." in: **Blood**, Vol. 104, Issue 1, pp. 207-14, (2004) (PubMed).

Volná, Lebduska, Dráberová, Símová, Heneberg, Boubelík, Bugajev, Malissen, Wilson, Horejsí, Malissen, Dráber: "Negative regulation of mast cell signaling and function by the adaptor LAB/NTAL." in: **The Journal of experimental medicine**, Vol. 200, Issue 8, pp. 1001-13, (2004) (PubMed).

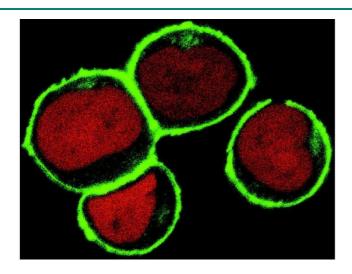
Brdicka, Imrich, Angelisová, Brdicková, Horváth, Spicka, Hilgert, Lusková, Dráber, Novák, Engels, Wienands, Simeoni, Osterreicher, Aguado, Malissen, Schraven, Horejsí: "Non-T cell activation linker (NTAL): a transmembrane adaptor protein involved in immunoreceptor signaling." in: **The Journal of experimental medicine**, Vol. 196, Issue 12, pp. 1617-26, (2002) (PubMed).

## **Images**



### **Flow Cytometry**

**Image 1.** Flow cytometry analysis (intracellular staining) of NTAL in human peripheral blood lymphocytes using anti-NTAL (NAP-07) PE.



# **Confocal Microscopy**

Image 2. Confocal microscopy Subcellular localization of NTAL by confocal microscopy in THP-1 human acute monocytic leukemia cell line. THP-1 cells were permeabilized and immunostained using anti-NTAL (NAP-07; green). Nuclei are vizualized by propidium iodide (red).