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-20°C
#11986

NTAL/LAB (D7I2B) Rabbit mAb

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Entrez-Gene ID #7462
UniProt ID #Q9GZY6

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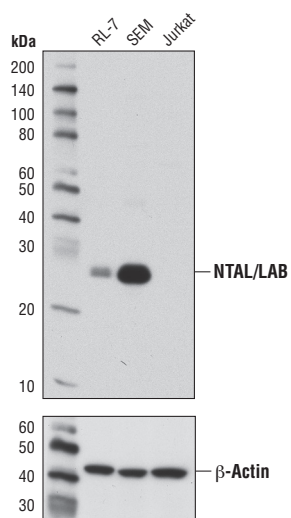
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Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IF-IC, F Endogenous	H	28 kDa	Rabbit IgG**

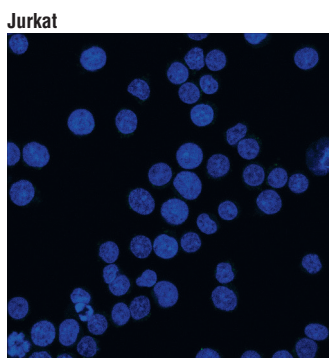
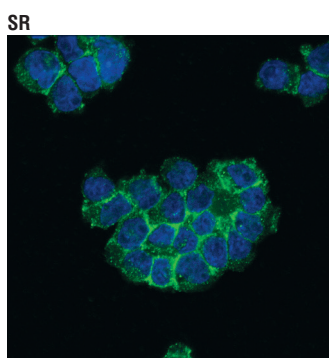
Background: Non-T cell activation linker (NTAL)/linker for activation of B cells (LAB) is a small transmembrane adaptor protein associated with glycolipid-enriched membrane fractions (1,2). NTAL/LAB is also known as LAT2 (linker for activation of T cells 2), WBSCR5, WBS15, and WBSCR15 (Williams-Beuren syndrome chromosome region 15 protein). It is expressed in B cells, monocytes, mast cells, and natural killer cells, but not in resting T cells (3). Upon activation of several receptors, NTAL/LAB becomes tyrosine-phosphorylated and recruits signaling molecules such as GRB2 and c-Cbl into receptor signaling complexes (4-6).

Specificity/Sensitivity: NTAL/LAB (D7I2B) Rabbit mAb recognizes endogenous levels of total NTAL/LAB protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly222 of human NTAL/LAB protein.



Western blot analysis of extracts from RL-7, SEM, and Jurkat cells using NTAL/LAB (D7I2B) Rabbit mAb (upper) or β -Actin (D6A8) Rabbit mAb #8457 (lower).



Confocal immunofluorescent analysis of SR (positive; upper) and Jurkat (negative; lower) cells using NTAL/LAB (D7I2B) Rabbit mAb (green). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunofluorescence (IF-IC)	1:400
Flow Cytometry	1:100

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Background References:

- (1) Iwaki, S. et al. (2007) *Int J Biochem Cell Biol* 39, 868-73.
- (2) Lindquist, J.A. et al. (2003) *Immunol. Rev.* 191, 165-182.
- (3) Brdiczka, T. et al. (2002) *J. Exp. Med.* 196, 1617-1626.
- (4) Koonpaew, S. et al. (2004) *J. Biol. Chem.* 279, 11229-11235.
- (5) Tkaczyk, C. et al. (2004) *Blood* 104, 207-214.
- (6) Stork, B. et al. (2004) *Immunity* 21, 681-691.

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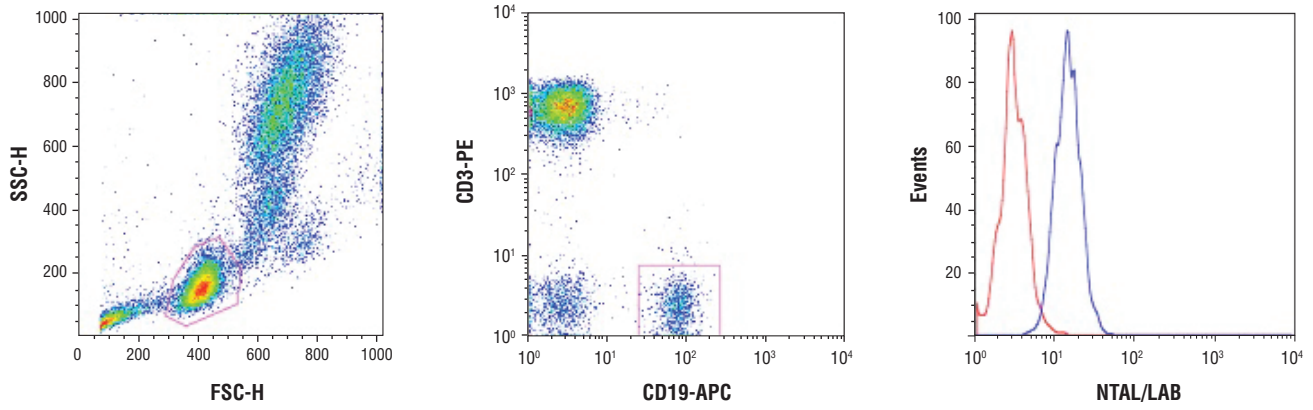
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Human whole blood was fixed, lysed, and permeabilized as per the Cell Signaling Technology Flow Alternate Protocol and stained using NTAL/LAB (D712B) Rabbit mAb. Samples were co-stained with CD19-APC and CD3-PE to identify B and T cell populations, respectively. The forward/side scatter lymphocyte gate and CD19+ B cell population gate were combined and applied to a histogram depicting the mean fluorescence intensity of NTAL/LAB (blue) and a concentration-matched isotype control (red). Anti-rabbit IgG (H+L), F(ab')₂ Fragment (Alexa Fluor® 488 Conjugate) #4412 was used as a secondary antibody.