Revision 3

Store at -20C

#9533

NTAL/LAB Antibody

Cell Signaling
T E C H N O L O G Y®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	25	Rabbit	#Q9GZY6	7462

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

NTAL/LAB Antibody detects endogenous levels of total NTAL/LAB protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly222 of human NTAL/LAB. Antibodies are purified by protein A and peptide affinity chromatography.

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).

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. Brdicka, 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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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 **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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