

Datasheet for ABIN120727

anti-LAT2 antibody (AA 91-244)[Go to Product page](#)**3** Publications

Overview

Quantity:	0.1 mg
Target:	LAT2
Binding Specificity:	AA 91-244
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAT2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant cytoplasmic domain (aa 91-244) of human NTAL
Clone:	NAP-07
Isotype:	IgG1
Specificity:	The antibody reacts with Non-T cell activation linker (NTAL), also known as LAB (linker of activated B cells), a 25 - 30 kDa transmembrane adaptor protein present in membrane microdomains (rafts) of B lymphocytes, NK cells and myeloid cells.
Purification:	Protein A affinity chromatography
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	LAT2
Alternative Name:	LAT2 / WBSCR15 (LAT2 Products)
Background:	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. Synonyms: HSPC046, LAB, LLinker for activation of B-cells, Linker for activation of T-cells family member 2, Membrane-associated adapter molecule, NTAL, Non-T-cell activation linker, WBS15, WBSCR5, Williams-Beuren syndrome chromosomal region 15 protein
Gene ID:	7462
UniProt:	Q9GZY6
Pathways:	Fc-epsilon Receptor Signaling Pathway , BCR Signaling

Application Details

Application Notes:	Immunoprecipitation. Western Blot: Recommended dilution: 2 mg/mL, incubation 60 min Positive control: RAMOS human lymphoma cell line Negative control: HeLa human cervix carcinoma cell line Sample preparation: Resuspend approx. 50 mil. cells in 1 mL cold Lysis buffer (1 % laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-Reducing conditions. 12 % separating SDS-PAGE gel. Immunocytochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
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

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf Life: one year from despatch.

Expiry Date: 12 months

Publications

Product cited in: Nørsett, Laegreid, Langaas, Wörlund, Fossmark, Waldum, Sandvik: "Molecular characterization of rat gastric mucosal response to potent acid inhibition." in: **Physiological genomics**, Vol. 22, Issue 1, pp. 24-32, (2007) ([PubMed](#)).

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](#)).