abcam

Product datasheet

Anti-NTAL antibody [NAP-07] ab3992

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Overview

Product name	Anti-NTAL antibody [NAP-07]
Description	Mouse monoclonal [NAP-07] to NTAL
Host species	Mouse
Specificity	The antibody reacts with Non-T cell activation linker (NTAL) a 30 kDa transmembrane adaptor protein present in membrane microdomains (rafts) of B cells, NK cells and myeloid cells.
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment, corresponding to amino acids 91-244 of Human NTAL.
Positive control	RAMOS human lymphoma cell lysate, Raji human lymphoma cell lysate
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purified from hybridoma culture supernatant. Purity >95% by SDS-PAGE.
Clonality	Monoclonal
Clone number	NAP-07
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab3992 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 1 - 4 µg/ml.
ICC/IF		Use at an assay dependent concentration.

Target

Function Involved in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. May also be involved in BCR (B-cell antigen receptor)-mediated signaling in B-cells and FCGR1 (high affinity immunoglobulin gamma Fc receptor I)-mediated signaling in myeloid cells. Couples activation of these receptors and their associated kinases with distal intracellular events through the recruitment of GRB2.

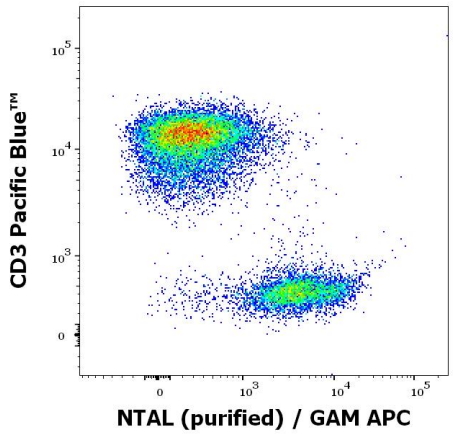
Tissue specificity Highly expressed in spleen, peripheral blood lymphocytes, and germinal centers of lymph nodes. Also expressed in placenta, lung, pancreas and small intestine. Present in B-cells, NK cells and monocytes. Absent from T-cells (at protein level).

Involvement in disease Note=LAT2 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of LAT2 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease.

Post-translational modifications Phosphorylated on tyrosines following cross-linking of BCR in B-cells, FCGR1 in myeloid cells, or FCER1 in mast cells; which induces the recruitment of GRB2.
May be polyubiquitinated.

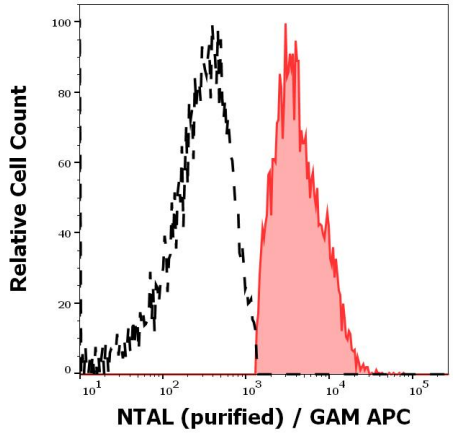
Cellular localization Cell membrane. Present in lipid rafts.

Images



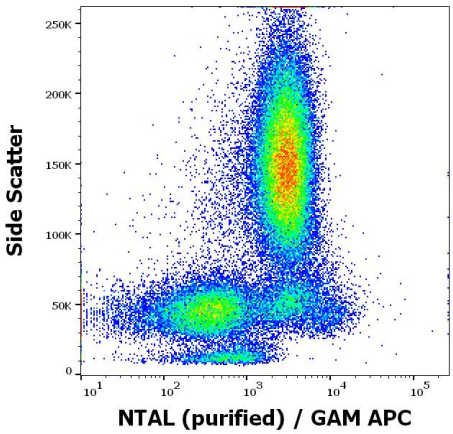
Flow Cytometry (Intracellular) - Anti-NTAL antibody [NAP-07] (ab3992)

Flow cytometry multicolor intracellular staining of human peripheral whole blood stained using ab3992 (concentration in sample 9 µg/ml, GAM APC) and anti-human CD3 (UCHT1) Pacific Blue™ antibody (20 µl reagent / 100 µl of peripheral whole blood).



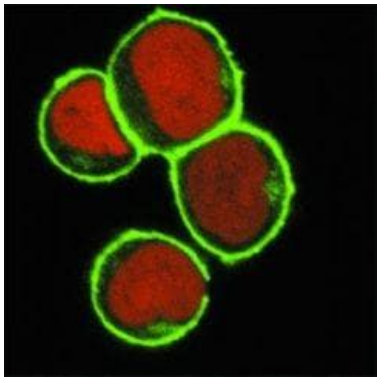
Flow Cytometry (Intracellular) - Anti-NTAL antibody [NAP-07] (ab3992)

Separation of human CD3 negative NTAL positive lymphocytes (red-filled) from CD3 positive NTAL negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of peripheral whole blood stained using ab3992 (concentration in sample 9 µg/ml, GAM APC).



Flow Cytometry (Intracellular) - Anti-NTAL antibody [NAP-07] (ab3992)

Flow cytometry intracellular staining pattern of human peripheral whole blood using ab3992 (concentration in sample 9 µg/ml, GAM APC).



Immunocytochemistry/ Immunofluorescence - Anti-NTAL antibody [NAP-07] (ab3992)

Subcellular localization of NTAL by confocal microscopy in the myeloid cell line THP-1. THP-1 cells were permeabilized and immunostained using antibody NAP-07 (green). Nuclei are vizualized by propidium iodide (red).

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