

Product Datasheet

FLAP Antibody NB300-891

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB300-891**FLAP Antibody****Product Information**

Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description

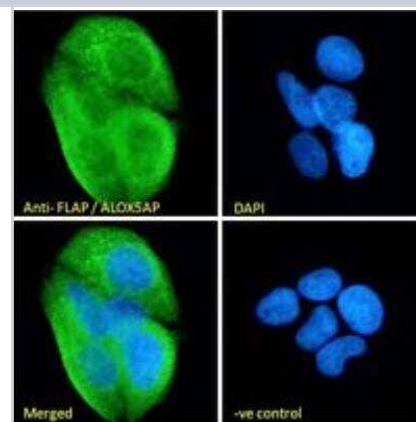
Host	Goat
Gene ID	241
Gene Symbol	ALOX5AP
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 27198524). Rat reactivity reported in scientific literature (PMID: 30735559).
Immunogen	Peptide with sequence C-KTISTTISPLLLIP corresponding to C-Terminus according to NP_001620.2.

Product Application Details

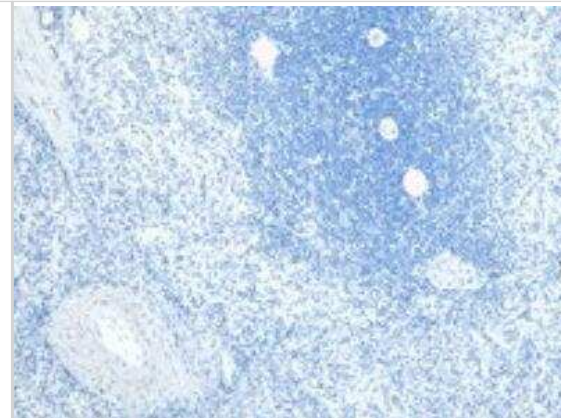
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 6 ug/mL, Peptide ELISA Detection limit 1:6000
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 30735559). Please note that the current batch of this antibody is not validated for use in WB. Publications citing use in WB were using previous batches.

Images

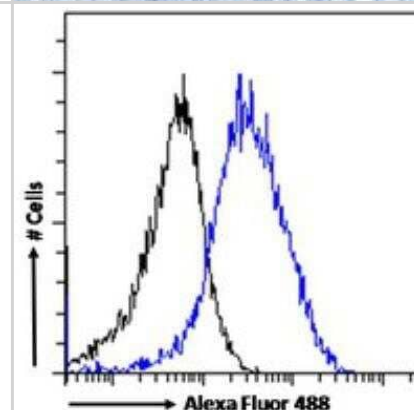
Immunocytochemistry/Immunofluorescence: FLAP Antibody [NB300-891] - Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



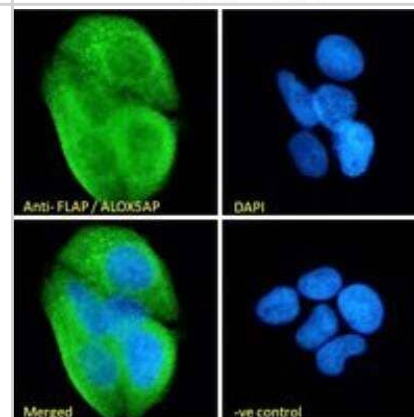
Immunohistochemistry-Paraffin: FLAP Antibody [NB300-891] - Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



Flow Cytometry: FLAP Antibody [NB300-891] - Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/Immunofluorescence: FLAP Antibody [NB300-891] - Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry-Paraffin: FLAP Antibody [NB300-891] - Staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining. Antibody at 6 ug/mL.



Publications

Waghray A, Monga I, Lin B et al. A deep lung cell atlas reveals cytokine-mediated lineage switching of a rare cell progenitor of the human airway epithelium bioRxiv 2023-11-29 [PMID: 38076853] (IHC, Human)

Mrowetz H, Kotob MH, Forster J et al. Leukotriene signaling as molecular correlate for cognitive heterogeneity in aging: an exploratory study Frontiers in Aging Neuroscience 2023-08-02 [PMID: 37600518]

Widmayer P, Pregitzer P, Breer H Short-term high fat feeding induces inflammatory responses of tuft cells and mucosal barrier cells in the murine stomach Histology and histopathology 2022-07-29 [PMID: 35904321] (IHC-Fr, Mouse)

Details:
Dilution used for IHC 1:300

Michael J, Unger Ms, Poupardin R Et Al. Microglia depletion diminishes key elements of the leukotriene pathway in the brain of Alzheimer's Disease mice Acta Neuropathol Commun 2020-08-08 [PMID: 32771067] (IF/IHC, Mouse)

Montoro D T, Haber A L et al. A revised airway epithelial hierarchy includes CFTR-expressing ionocytes. Nature 2018 -01-08 [PMID: 30069044] (IF/IHC, Mouse)

Schmider Ab, Bauer Nc, Sunwoo H et Al. Two and three-color STORM analysis reveals higher-order assembly of leukotriene synthetic complexes on the nuclear envelope of murine neutrophils J. Biol. Chem. 2020-03-09 [PMID: 32152223]

SchUtz B, Ruppert AL, Strobel O et al. Distribution pattern and molecular signature of cholinergic tuft cells in human gastro-intestinal and pancreatic-biliary tract Sci Rep 2019-11-25 [PMID: 31767912] (ICC/IF, Human)

Schmider AB, Vaught M, Bauer NC, Elliott HL. The organization of leukotriene biosynthesis on the nuclear envelope revealed by single molecule localization microscopy and computational analyses bioRxiv 1905-07-11 [PMID: 30735559] (ICC/IF, Rat)

Huang YH, Sharifpanah F, Becker S et al. Impact of Arachidonic Acid and the Leukotriene Signaling Pathway on Vasculogenesis of Mouse Embryonic Stem Cells. Cells Tissues Organs. 2016-05-31 [PMID: 27198524] (WB, Mouse)

Huang YH. Impact of the arachidonic acid/leukotriene signaling pathway for vasculogenesis and leukocyte differentiation of mouse embryonic stem cells. thesis. 2015-10-26 (WB, Mouse)

Helgadottir A, Manolescu A, Thorleifsson G et al. The gene encoding 5-lipoxygenase activating protein confers risk of myocardial infarction and stroke. Nat Genet 2004-03-01 [PMID: 14770184]

Finkensieper A, Kieser S, Bekhite MM et al. The 5-lipoxygenase pathway regulates vasculogenesis in differentiating mouse embryonic stem cells. Cardiovasc Res. 2010-04-01 [PMID: 19965960] (WB, Mouse)

Details:
BLT1 (IMG-71194) WB (mouse embryonic stem cell).





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Products Related to NB300-891

NBL1-07484	FLAP Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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