

Goat Anti-FLAP / ALOX5AP (internal) Antibody Peptide-affinity purified goat antibody Catalog # AF1420b

Specification

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW

WB, IHC, E <u>P20292</u> <u>NP_001620, 241</u> Human Dog Goat Polyclonal 100ug/200ul IgG 18157

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Additional Information

Gene ID 241

Other Names Arachidonate 5-lipoxygenase-activating protein, FLAP, MK-886-binding protein, ALOX5AP, FLAP

Dilution WB~~1:1000 IHC~~1:100~500 E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-FLAP / ALOX5AP (internal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Protein Information

Name ALOX5AP

Synonyms FLAP



Function

Required for leukotriene biosynthesis by ALOX5 (5- lipoxygenase). Anchors ALOX5 to the membrane. Binds arachidonic acid, and could play an essential role in the transfer of arachidonic acid to ALOX5. Binds to MK-886, a compound that blocks the biosynthesis of leukotrienes.

Cellular Location

Nucleus membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Images

	250kDa 150kDa 100kDa
	75kDa
	50kDa
	37kDa
	25kDa
	20kDa
-	15kDa
	10kDa

AF1420b (0.1 μ g/ml) staining of Human U937 cell lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1420b (3.8 µg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval



with citrate buffer pH 6, AP-staining.

Goat Anti-FLAP / ALOX5AP (internal) Antibody - Background

This gene encodes a protein which, with 5-lipoxygenase, is required for leukotriene synthesis. Leukotrienes are arachidonic acid metabolites which have been implicated in various types of inflammatory responses, including asthma, arthritis and psoriasis. This protein localizes to the plasma membrane. Inhibitors of its function impede translocation of 5-lipoxygenase from the cytoplasm to the cell membrane and inhibit 5-lipoxygenase activation.

Goat Anti-FLAP / ALOX5AP (internal) Antibody - References

ALOX5AP and LTA4H polymorphisms modify augmentation of bronchodilator responsiveness by leukotriene modifiers in Latinos. Tcheurekdjian H, et al. J Allergy Clin Immunol, 2010 Aug 30. PMID 20810156.

Human lipoxygenase pathway gene variation and association with markers of subclinical atherosclerosis in the diabetes heart study. Burdon KP, et al. Mediators Inflamm, 2010. PMID 20592751.

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Risk of meningioma and common variation in genes related to innate immunity. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2010 May. PMID 20406964.