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ALOX5AP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7897c

Product Information

Application	WB, IHC-P, E
Primary Accession	P20292
Other Accession	P20291, P30357, P30356, P30355, Q2PG08, Q148F2
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Pig, Rabbit, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17169
Calculated MW	18157
Antigen Region	86-117

Additional Information

Gene ID	241
Other Names	Arachidonate 5-lipoxygenase-activating protein, FLAP, MK-886-binding protein, ALOX5AP, FLAP
Target/Specificity	This ALOX5AP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-117 amino acids from the Central region of human ALOX5AP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ALOX5AP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

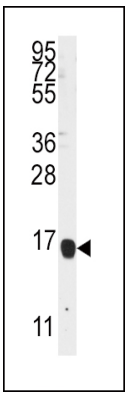
Background

ALOX5AP is 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.

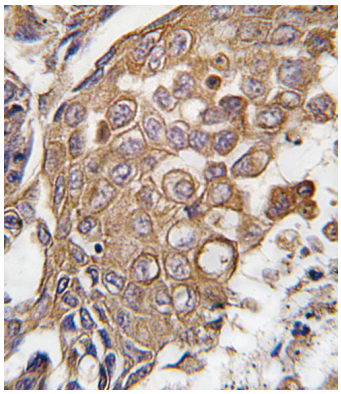
References

Zintzaras,E., Am. J. Epidemiol. 169 (5), 523-532 (2009)
Crosslin,D.R., Hum. Genet. 125 (2), 217-229 (2009)
Steinhilber,D., Pharm Acta Helv 69 (1), 3-14 (1994)

Images



Western blot analysis of anti-ALOX5AP Antibody (Center) (Cat.#AP7897c) in K562 cell line lysates (35ug/lane). ALOX5AP(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ALOX5AP antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.