

Product datasheet for AP06493PU-N

5 Lipoxygenase (ALOX5) Rabbit Polyclonal Antibody

Product data:

Reactivity:

Clonality:

Host:

Product Type: **Primary Antibodies Applications:** IHC, WB Recommended Dilution: Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Human, Mouse, Rat Rabbit Polyclonal Immunogen: Synthetic peptide, corresponding to amino acids 231-280 of Human ALOX5.

Specificity:	This antibody detects endogenous levels of ALOX5 protein. (region surrounding Glu267)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified lg fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~78 kDa
Gene Name:	arachidonate 5-lipoxygenase
Database Link:	<u>Entrez Gene 240 Human</u> <u>P09917</u>



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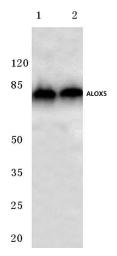
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GRIGENE 5 Lipoxygenase (ALOX5) Rabbit Polyclonal Antibody – AP06493PU-N

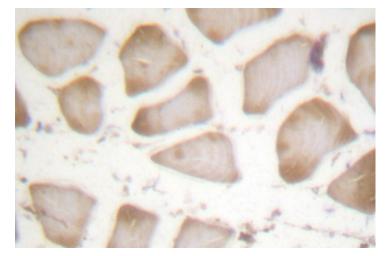
Background: 5-lipoxygenase (5-LO) is expressed primarily in polymorphonuclear leukocytes, macrophages, and mast cells. 5-LO performs the first two catalytic reactions in the biosynthesis of leukotrienes, lipid metabolites that induce contractions of airway smooth muscle and increase vascular permeability during anaphylaxis. The cellular localization of 5-LO varies between cell types. In activated blood polymorphonuclear leukocytes 5-LO undergoes calcium dependent translocation from the cytosol to the nuclear envelope. In alveolar macrophages, the majority of 5-LO is localized in the nucleus and, upon activation of these cells, intranuclear 5-LO binds to the nuclear membrane. This intracellular shuttling of 5-LO is dependent on the associationwith various signaling molecules, phosphorylation and the presence of a distinct nuclear localization signal, which is encoded at the amino terminus of 5-LO.

Synonyms: 5-lipoxygenase, 5-LO, Arachidonate 5-lipoxygenase

Product images:



Western blot (WB) analysis of ALOX5 antibody at 1/500 dilution Lane 1:HEK293T whole cell lysate Lane 2:Rat lung tissue lysate



Immunohistochemistry analyzes of ALOX5 antibody in paraffin-embedded human skeletal muscle tissue.

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