

ALOX5 Polyclonal Antibody | anti-ALOX5 antibody

Anti-ALOX5 Antibody

CATALOG # AAA46465	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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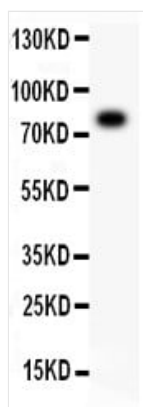
PRODUCT SYNONYMS

ALOX5; Polyclonal Antibody; Anti-ALOX5 Antibody; Arachidonate 5-lipoxygenase; 5 LO; 5 LOX; 5-lipoxygenase; 5-LO; 5-LOX; 5LOX; 5LPG; ALOX 5; Alox5; Arachidonate 5 lipoxygenase; arachidonic 5-lipoxygenase alpha-10 isoform; arachidonic 5-lipoxygenase delta-10-13 isoform; arachidonic 5-lipoxygenase delta-13 isoform; arachidonic 5-lipoxygenase delta-p10 isoform; Arachidonic acid 5 lipoxygenase; Leukotriene A4 synthase; LOG 5; LOG5; LOX5_HUMAN; MGC163204; arachidonate 5-lipoxygenase; anti-ALOX5 antibody

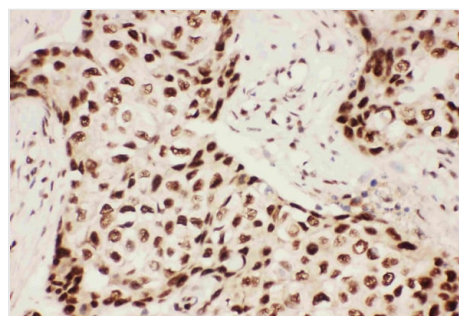
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	674
Applicable Applications for anti-ALOX5 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human ALOX5 recombinant protein (Position: A120-R483). Human ALOX5 shares 94% amino acid (aa) sequence identity with both mouse and rat ALOX5.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

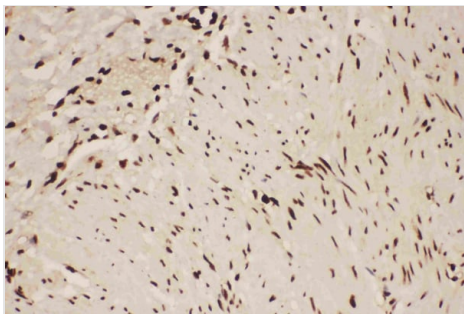
IMAGES


WB (Western Blot)

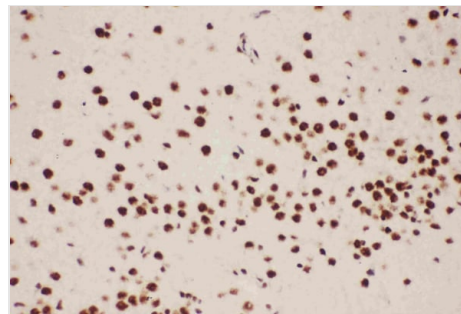
Anti-ALOX5 Picoband antibody, -5.jpgAll lanes: Anti-ALOX5 at 0.5ug/mlWB: SGC Whole Cell Lysate at 40ugPredicted bind size: 78KDObserved bind size: 78KD


IHC (Immunohistochemistry)

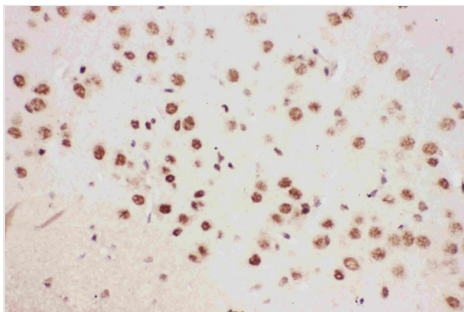
Anti-ALOX5 Picoband antibody, -4.JPGIHC(P): Human Mammary Cancer Tissue



IHC (Immunohistochemistry)
Anti-ALOX5 Picoband antibody, -3.JPGIHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti-ALOX5 Picoband antibody, -2.JPGIHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)
Anti-ALOX5 Picoband antibody, -1.JPGIHC(P): Mouse Brain Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-ALOX5 antibody	Description: Rabbit IgG polyclonal antibody for Arachidonate 5-lipoxygenase(ALOX5) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Arachidonate 5-lipoxygenase, also known as 5-LOX or 5-LO, is an enzyme that in humans is encoded by the ALOX5 gene. ALOX5 is a member of the lipoxygenase family of enzymes. It is mapped to 10q11.21. ALOX5 plays a dual role in the synthesis of leukotrienes from arachidonic acid. The position of ALOX5 within the nucleus of resting cells determines the capacity to generate LTB4 upon subsequent activation. It is involved in lung vascular tone regulation and in the development of chronic pulmonary hypertension in hypoxic rodent models. ALOX5 also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases.
References	1. Luo, M., Jones, S. M., Peters-Golden, M., Brock, T. G. Nuclear localization of 5-lipoxygenase as a determinant of leukotriene B(4) synthetic capacity. Proc. Nat. Acad. Sci. 100: 12165-12170, 2003. 2. Chu, J., Pratico, D. 5-lipoxygenase as an endogenous modulator of amyloid-beta formation in vivo. Ann. Neurol. 69: 34-46, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502057
NCBI GeneID	240
NCBI Accession #	NP_000689.1
NCBI GenBank Nucleotide #	NM_000698.4
UniProt Accession #	P09917 ; Q5JQ14 ; B7ZLS0 ; E5FPY5 ; E5FPY7 ; E5FPY8
Molecular Weight	56,291 Da
NCBI Official Full Name	arachidonate 5-lipoxygenase isoform 1
NCBI Official Synonym Full Names	arachidonate 5-lipoxygenase
NCBI Official Symbol	ALOX5
NCBI Official Synonym Symbols	5-LO; 5LPG; LOG5; 5-LOX

NCBI Protein Information	arachidonate 5-lipoxygenase
UniProt Protein Name	Arachidonate 5-lipoxygenase
UniProt Gene Name	ALOX5
UniProt Synonym Gene Names	LOG5; 5-LO; 5-lipoxygenase
UniProt Entry Name	LOX5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/alox5-antibody-immunohistochemistry-western-blot-elisa/46465>