

Rabbit 12 Lipoxygenase Polyclonal Antibody | anti-ALOX12 antibody

Anti-12 Lipoxygenase Antibody

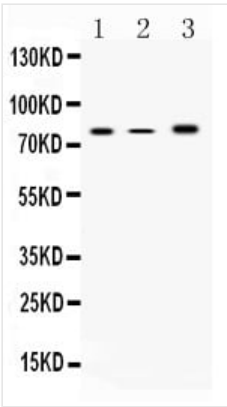
CATALOG # AAA46740	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

12 Lipoxygenase; Polyclonal Antibody; Anti-12 Lipoxygenase Antibody; ALOX12; arachidonate 12-lipoxygenase; EC1.13.11.31; Lipoxin synthase 12-LO; LOG12; P18054; Platelet-type lipoxygenase 12; Arachidonate 12-lipoxygenase; 12S-type; anti-ALOX12 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	663
Applicable Applications for anti-ALOX12 antibody	WB (Western Blot)
Contents	Each vial contains 4mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Notes	Tested Species: In-house tested species with positive results. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human 12 Lipoxygenase (186-231aa ALKRVYTLSSWNCLEDFDQIFWGQKSALAEKVRQCWQDDELFSYQ), different from the related mouse sequence by six amino acids, and from the related rat sequence by seven amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 1. Western blot analysis of 12 Lipoxygenase using anti-12 Lipoxygenase antibody (AAA46740). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: rat spleen tissue lysates, lane 2: mouse spleen tissue lysates, lane 3: COLO320 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-12 Lipoxygenase antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for 12 Lipoxygenase at approximately 80KD. The expected band size for 12 Lipoxygenase is at 75KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ALOX12 antibody	Rabbit IgG polyclonal antibody for Arachidonate 12-lipoxygenase, 12S-type(ALOX12) detection. Background: ALOX12, Arachidonate 12-lipoxygenase, is an enzyme that in humans is encoded by the ALOX12 gene. By fluorescence in situ hybridization, the ALOX12 gene is located in band 17p13.1. The gene consists of 14 exons with 13 introns and spans approximately 15 kb of DNA Arachidonate 12-lipoxygenase introduces a molecular oxygen into the C-12 position of arachidonic acid to produce 12(S)-hydroperoxy-5, 8, 10, 14-eicosatetraenoic acid. The major pathway of arachidonic acid metabolism in human platelets proceeds via a 12-lipoxygenase enzyme. Expression of the LOG12 gene was detected in human erythroleukemia cells, platelets, and human umbilical vein endothelial cells by reverse transcription-PCR analysis.
References	1. Funk, C. D., Furci, L., FitzGerald, G. A. Molecular cloning, primary structure, and expression of the human platelet/erythroleukemia cell 12-lipoxygenase. Proc. Nat. Acad. Sci. 87: 5638-5642, 1990. 2. Natarajan, R., Esworthy, R., Bai, W., Gu, J.-L., Wilczynski, S., Nadler, J. Increased 12-lipoxygenase expression in breast cancer tissues and cells. Regulation by epidermal growth factor. J. Clin. Endocr. Metab. 82: 1790-1798, 1997. 3. Yoshimoto, T., Arakawa, T., Hada, T., Yamamoto, S., Takahashi, E. Structure and chromosomal localization of human arachidonate 12-lipoxygenase gene. J. Biol. Chem. 267: 24805-24809, 1992.

NCBI AND UNIPROT INFORMATION

NCBI GI #	154426292
NCBI GeneID	239
NCBI Accession #	NP_000688.2
NCBI GenBank Nucleotide #	NM_000697.2
UniProt Accession #	P18054; O95569; Q6ISF8; Q9UQM4
Molecular Weight	75,694 Da
NCBI Official Full Name	arachidonate 12-lipoxygenase, 12S-type
NCBI Official Synonym Full Names	arachidonate 12-lipoxygenase, 12S type

NCBI Official Symbol	ALOX12
NCBI Official Synonym Symbols	LOG12; 12-LOX; 12S-LOX
NCBI Protein Information	arachidonate 12-lipoxygenase, 12S-type
UniProt Protein Name	Arachidonate 12-lipoxygenase, 12S-type
UniProt Gene Name	ALOX12
UniProt Synonym Gene Names	12LO; LOG12; 12S-LOX; 12S-lipoxygenase

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/12-lipoxygenase-antibody-western-blot-elisa/46740>