

Datasheet for ABIN5647834

## anti-12-Lipoxygenase antibody (AA 186-231)



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	12-Lipoxygenase (LOX12)
Binding Specificity:	AA 186-231
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

#### Product Details

Immunogen:	Amino acids 186-231 (ALKRVYTLSSWNCLEDFDQIFWGQKSALAEKVRQCWQDDELFSYQ) from the human protein were used as the immunogen for the 12 Lipoxygenase antibody.
Isotype:	IgG
Purification:	Antigen affinity purified

#### Target Details

Target:	12-Lipoxygenase (LOX12)
Alternative Name:	12 Lipoxygenase ( <a href="#">LOX12 Products</a> )
Background:	ALOX12 (Arachidonate 12-lipoxygenase) is an enzyme that in humans is encoded by the ALOX12 gene. By fluorescence in situ hybridization, the 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

## Target Details

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.

UniProt: [P18054](#)

## Application Details

Application Notes: Optimal dilution of the 12 Lipoxygenase antibody should be determined by the researcher. WB: 0.5-1 µg/mL

Restrictions: For Research Use only

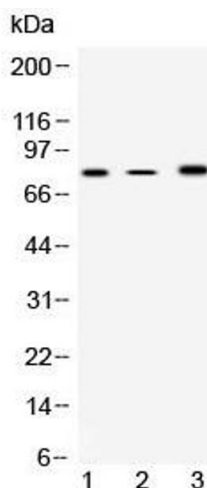
## Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

Storage Comment: After reconstitution, the 12 Lipoxygenase antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

## Images



### Western Blotting

**Image 1.** Western blot testing of 1) rat spleen, 2) mouse spleen and 3) human COLO320 lysate with 12 Lipoxygenase antibody at 0.5ug/ml. Predicted molecular weight ~76 kDa.