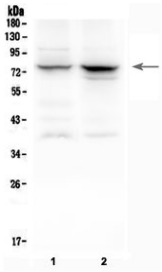
# 12 Lipoxygenase Antibody / ALOX12 (R32691)

| Catalog No. | Formulation | Size |
|---|---|---|
| R32691 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P18054 |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This 12 Lipoxygenase antibody is available for research use only. |




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

## Description

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 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.

Learn more about ALOX12 function, lipid peroxidation and oxidative stress on our ALOX12 Antibody / Lipid Peroxidation Enzyme Antibody page.

## Application Notes

Optimal dilution of the 12 Lipoxygenase antibody should be determined by the researcher.

## Immunogen

Amino acids 186-231 (ALKRVYTLLSSWNCLEDFDQIFWGQKSALAEKVRQCWQDDELFSYQ) were used as the immunogen for the 12 Lipoxygenase antibody.

## Storage

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


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