

## 5-LO rabbit pAb

Cat No.: ES5392

For research use only

## Overview

Product Name 5-LO rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA Species Cross-Reactivity Human;Mouse;Rat

**Recommended dilutions** Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. The antiserum was produced against synthesized

Immunogen The antiserum was produced against synthesized peptide derived from human Arachidonate 5

Lipoxygenase. AA range:246-295

**Specificity** 5-LO Polyclonal Antibody detects endogenous levels

of 5-LO protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

**Storage** Store at -20°C. Avoid repeated freeze-thaw cycles.

**Protein Name** Arachidonate 5-lipoxygenase

Gene Name ALOX5

Cellular localization Cytoplasm . Nucleus matrix . Nucleus membrane ;

Peripheral membrane protein . Cytoplasm, perinuclear region . Cytoplasm, cytosol . Nucleus envelope . Nucleus intermembrane space . Shuttles

between cytoplasm and nucleus

(PubMed:19233132). Found exclusively

**Purification** The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 78kD
Human Gene ID 240
Human Swiss-Prot Number P09917

Alternative Names ALOX5; LOG5; Arachidonate 5-lipoxygenase; 5-LO;

5-lipoxygenase



+86-27-59760950 ELKbio@ELKbiotech.com

www.elkbiotech.com



**Background** 

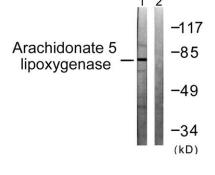
This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to

5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetrenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012],

Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using Arachidonate 5 Lipoxygenase Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using Arachidonate 5 Lipoxygenase Antibody. The lane on the right is blocked with the synthesized peptide.



+86-27-59760950

