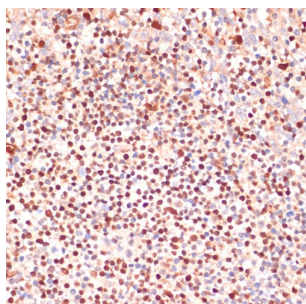
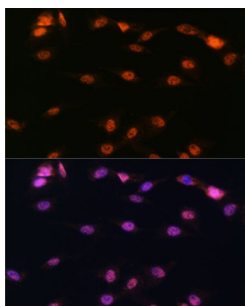


## Polyunsaturated Fatty Acid 5-Lipoxygenase (ALOX5) Antibody

Catalogue No.: abx001770



Immunohistochemistry of paraffin-embedded Human tonsil using ALOX5 Antibody (1/100 dilution, 40x lens).



Immunofluorescence analysis of C6 cells using ALOX5 Antibody (1/100 dilution). Blue: DAPI for nuclear staining.

ALOX5 Antibody is a Rabbit Polyclonal antibody against ALOX5. 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-eicosatetraenoic 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.

**Target:** Polyunsaturated Fatty Acid 5-Lipoxygenase (ALOX5)

**Clonality:** Polyclonal

**Reactivity:** Human, Mouse, Rat

**Tested Applications:** IHC, IF/ICC

**Host:** Rabbit

**Recommended dilutions:** IHC-P: 1/50 - 1/200, IF/ICC: 1/50 - 1/200. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** Recombinant fusion protein corresponding to human ALOX5

# Datasheet

Version: 4.0.0

Revision date: 29 Jun 2025



Isotype:	IgG
Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P09917 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )
Gene Symbol:	ALOX5
GeneID:	<a href="#">240</a>
NCBI Accession:	NP_000689.1
KEGG:	hsa:240
String:	<a href="#">9606.ENSP00000363512</a>
Buffer:	PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.
Concentration:	1 mg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.