

## ALOX5 Antibody

Catalog No: #35564

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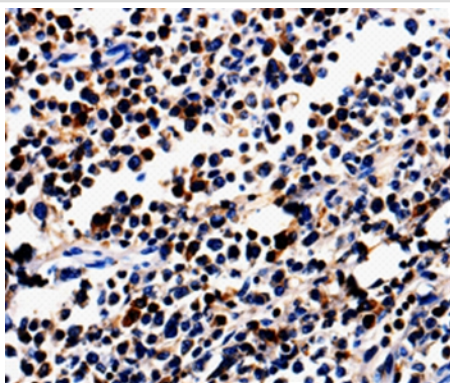
## Description

Product Name	ALOX5 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total ALOX5 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from internal residues of human Arachidonate 5-lipoxygenase
Target Name	ALOX5
Other Names	5-LO; 5LPG; LOG5; 5-LOX
Accession No.	Swiss-Prot#: P09917NCBI Gene ID: 240Gene Accssion: BC130332
Uniprot	P09917
GeneID	240;
Concentration	0.7mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C

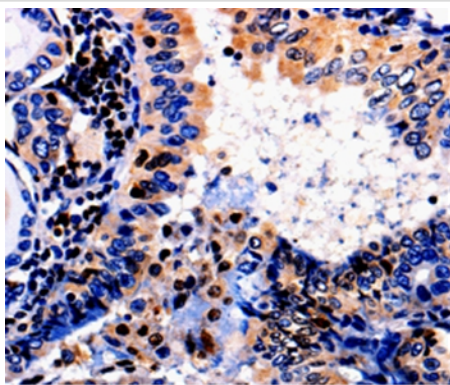
## Application Details

Immunohistochemistry: 1:50-1:150

## Images



Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue using #35564 at dilution 1/50.



Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using #35564 at dilution 1/50.

## 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-eicosatetraenoic acid (leukotriene A<sub>4</sub>). 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.

Note: This product is for in vitro research use only