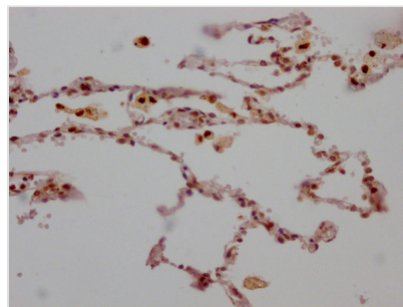




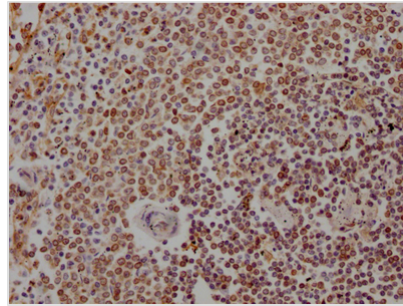
ALOX5 Antibody

Product Code	CSB-RA198316A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P09917
Immunogen	A synthesized peptide derived from human 5 Lipoxygenase
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Metabolism; Signal transduction
Gene Names	ALOX5
Accession NO.	1D4

Image



IHC image of CSB-RA198316A0HU diluted at 1:100 and staining in paraffin-embedded human lung tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA198316A0HU diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

ALOX5 is an iron-containing and nonheme dioxygenase that catalyzes the peroxidation of polyunsaturated fatty acids such as arachidonic acid. ALOX5 serves as a rate-limiting enzyme responsible for the biosynthesis of leukotrienes (LTs), the major mediators of inflammation, finally causing multiple human diseases including asthma, cancers, atherosclerosis, diabetes, and Alzheimer's disease. ALOX5 also makes great contributions to mediating lipid peroxidation by producing lipid peroxides. In recent years, it has been discovered that ALOX5 plays a central role in cell death including apoptosis, pyroptosis, and ferroptosis.

The generation of this recombinant ALOX5 antibody occurs in a series of steps: immunization, splenocytes & PBMC, single B cell sorting, mRNA extraction, RT-PCR & insert vector, expression, ELISA validation. And ELISA, IHC was carried out Every step was performed under strict standards to ensure the researchers can have a recombinant ALOX5 antibody with premium quality.