

Datasheet for ABIN3043727
anti-ALOX5 antibody (AA 120-483)[Go to Product page](#)

5 Images

Overview

Quantity:	100 µg
Target:	ALOX5
Binding Specificity:	AA 120-483
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Arachidonate 5-lipoxygenase(ALOX5) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human ALOX5 recombinant protein (Position: A120-R483). Human ALOX5 shares 94% amino acid (aa) sequence identity with both mouse and rat ALOX5.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Arachidonate 5-lipoxygenase(ALOX5) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: arachidonate 5-lipoxygenase</p> <p>Protein Name: Arachidonate 5-lipoxygenase</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	ALOX5
Alternative Name:	ALOX5 (ALOX5 Products)
Background:	<p>Arachidonate 5-lipoxygenase, also known as 5-LOX or 5-LO, is an enzyme that in humans is encoded by the ALOX5 gene. ALOX5 is a member of the lipoxygenase family of enzymes. It is mapped to 10q11.21. ALOX5 plays a dual role in the synthesis of leukotrienes from arachidonic acid. The position of ALOX5 within the nucleus of resting cells determines the capacity to generate LTB4 upon subsequent activation. It is involved in lung vascular tone regulation and in the development of chronic pulmonary hypertension in hypoxic rodent models. ALOX5 also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases.</p> <p>Synonyms: 5 LO antibody 5 LOX antibody 5-lipoxygenase antibody 5-LO antibody 5-LOX antibody 5LOX antibody 5LPG antibody ALOX 5 antibody Alox5 antibody Arachidonate 5 lipoxygenase antibody Arachidonate 5-lipoxygenase antibody arachidonic 5-lipoxygenase alpha-10 isoform antibody arachidonic 5-lipoxygenase delta-10-13 isoform antibody arachidonic 5-lipoxygenase delta-13 isoform antibody arachidonic 5-lipoxygenase delta-p10 isoform antibody Arachidonic acid 5 lipoxygenase antibody Leukotriene A4 synthase antibody LOG 5 antibody LOG5 antibody LOX5_HUMAN antibody MGC163204 antibody</p>
Gene ID:	240
UniProt:	P09917

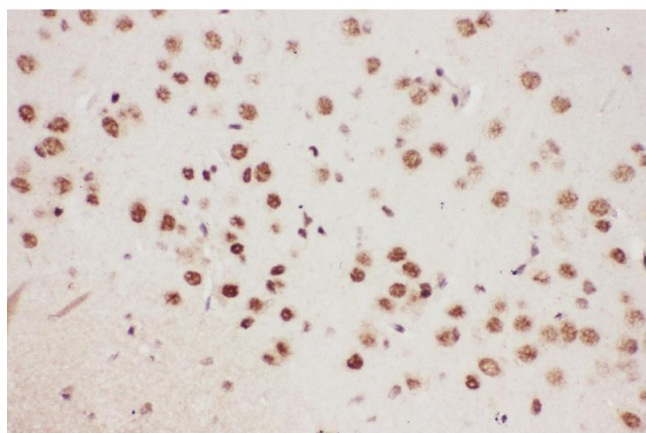
Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for ALOX5 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

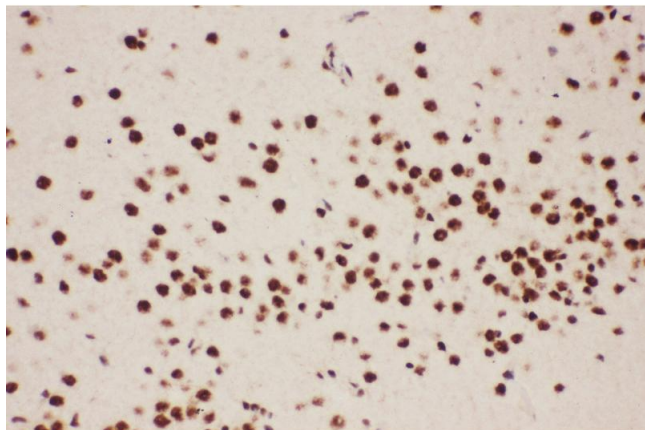
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



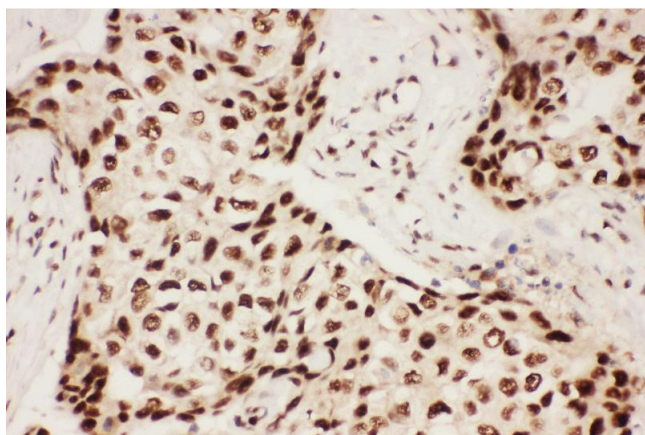
Immunohistochemistry

Image 1. Anti-ALOX5 Picoband antibody, IHC(P): Mouse Brain Tissue



Immunohistochemistry

Image 2. Anti-ALOX5 Picoband antibody, IHC(P): Rat Brain Tissue



Immunohistochemistry

Image 3. Anti-ALOX5 Picoband antibody, IHC(P): Human Mammary Cancer Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043727.