

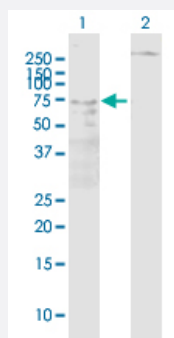
MaxPab®

ALOX5 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000240-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of ALOX5 expression in transfected 293T cell line ([H00000240-T01](#)) by ALOX5 MaxPab polyclonal antibody.

Lane 1: ALOX5 transfected lysate(74.14 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALOX5 protein.

Immunogen

ALOX5 (NP_000689.1, 1 a.a. ~ 674 a.a) full-length human protein.

Sequence

MPSYTVTVATGSQWFAGTDDYMLSLVGSAGCSEKHLLDKPFYNDFERGAVDSYDVTVDEELGEI
QLVRIEKRYWLNDDWYLKYITLKTTPHGDYIEFPCYRWITGDVEVVLRDGRAKLARDDQIHILKQHR
RKELETRQKQYRWMENWPGFPLSIDAKCHKDLPRDIQFDSEKGVDFVLNYSKAMENLFINRFMH
MFQSSWNDFADFEKIFVKISNTISERVNMHWQEDLMFGYQFLNGCNPVLIRRCTELPEKLPVTTE
MVECSLERQLSLEQEVQQGNIFVDFELLDGIDANKTDPCTLQFLAAPICLLYKNLANKIVPIAQLNQ
IPGDENPIFLPSDAKYDWLLAKIWVRSSDFHVHQTTITHLRTHLVSEVFGIAMYRQLPAVHPIFKLLV
AHVRFTIAINTKAREQLICECGLFDKANATGGGGHVQMVQRAMKDLTYASLCFPEAIKARGMESK
EDIPYYFYRDDGLLVWEAIRTFTEAEVVDIYEGDQVVEEDPELQDFVNDVYVYGMGRGRKSSGFPK
SVKSREQLSEYLTVVIFTASQAHAANFNGQYDWCSWIPNAPPTMRAPPPTAKGVVTIEQVMDTLPD
RGRSCWHLGAVWALSQFQENELFLGMYPEEHFIEKPVKEAMARFRKNLEAVSVIAERNKKKQLP
YYLSPDRIPNSVAI

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence

Mouse (93)

Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — ALOX5

Entrez GeneID	240
GeneBank Accession#	NM_000698.2
Protein Accession#	NP_000689.1
Gene Name	ALOX5
Gene Alias	5-LO, 5-LOX, 5LPG, LOG5, MGC163204
Gene Description	arachidonate 5-lipoxygenase
Omim ID	152390 600807
Gene Ontology	Hyperlink
Gene Summary	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 have been observed, but their full-length nature has not been determined. [provided by RefSeq]
Other Designations	OTTHUMP00000019502 arachidonic acid 5-lipoxygenase leukotriene A4 synthase

Pathway

- [Arachidonic acid metabolism](#)
- [Linoleic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyps](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Hemorrhage](#)
- [Cerebrovascular Accident](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)

- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Hypersensitivity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hyperhomocysteinemia](#)
- [Hyperlipidemias](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Intracranial Hemorrhages](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metabolic Syndrome X](#)

- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Sinusitis](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urticaria](#)
- [Werner syndrome](#)