ALOX5 (Human) Cell-Based ELISA Kit

Catalog # KA2569 Size 1 Kit

Specification

Product Description	ALOX5 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative det ermination of ALOX5 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — ALOX5

Entrez GeneID	240
Protein Accession#	P09917
Gene Name	ALOX5
Gene Alias	5-LO, 5-LOX, 5LPG, LOG5, MGC163204
Gene Description	arachidonate 5-lipoxygenase

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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 synthes is 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-tr ans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,1 4-cis-eicosatetrenoic 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 dimin ished response to antileukotriene drugs used in the treatment of asthma and may also be associa ted with atherosclerosis and several cancers. Alternatively spliced transcript variants have been o bserved, 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

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- 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

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- 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

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