

Product datasheet for TA807011M

OriGene Technologies, Inc.

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5 Lipoxygenase (ALOX5) Mouse Monoclonal Antibody [Clone ID: OTI2C5]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI2C5
Applications: IHC, WB
Recommended Dilution: WB 1:2000

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human recombinant protein fragment corresponding to amino acids 18-364 of human

ALOX5(NP_000689) produced in E.coli.

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 77.8 kDa

Gene Name: arachidonate 5-lipoxygenase

Database Link: NP 000689

Entrez Gene 11689 MouseEntrez Gene 25290 RatEntrez Gene 240 Human

P09917





Background:

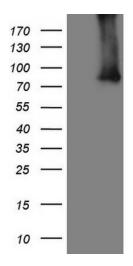
This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-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 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. [provided by RefSeq, Jan 2012]

Synonyms: 5-LO; 5-LOX; 5LPG; LOG5

Protein Families: Druggable Genome

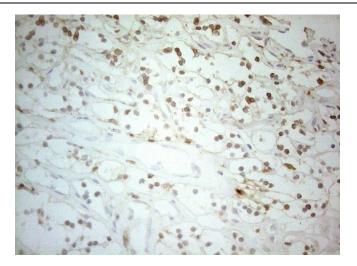
Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Product images:

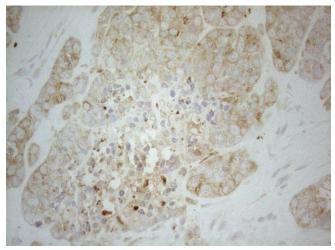


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALOX5 ([RC217259], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALOX5 (1:2000). Positive lysates [LY400234] (100ug) and [LC400234] (20ug) can be purchased separately from OriGene.

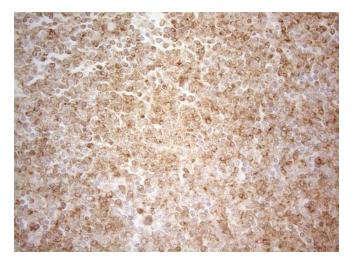




Immunohistochemical staining of paraffinembedded Carcinoma of Human kidney tissue using anti-ALOX5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

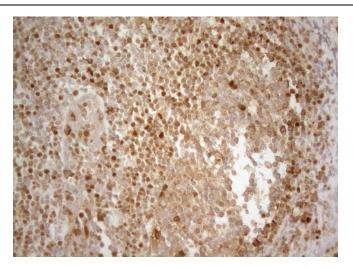


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-ALOX5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-ALOX5 mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-ALOX5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.