

Product datasheet for **TA343270**

5 Lipoxygenase (ALOX5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-ALOX5 antibody is: synthetic peptide directed towards the C-terminal region of Human ALOX5. Synthetic peptide located within the following region: FGQLFLGMYPEEHFIEKPVKEAMARFRKNLEAIVSVIAERNKKKQLPYYY
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	67 kDa
Gene Name:	arachidonate 5-lipoxygenase
Database Link:	NP_000689 Entrez Gene 240 Human P09917



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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-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 encoding different isoforms have been found for this gene.

Synonyms:

5-LO; 5-LOX; 5LPG; LOG5

Note:

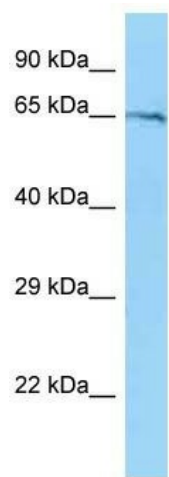
Immunogen Sequence Homology: Human: 100%; Pig: 92%; Guinea pig: 92%; Rat: 86%; Horse: 86%; Mouse: 86%; Bovine: 86%; Rabbit: 86%; Dog: 79%

Protein Families:

Druggable Genome

Protein Pathways:

Arachidonic acid metabolism, Metabolic pathways

Product images:

Host: Rabbit; Target Name: ALOX5; Sample Tissue: HepG2 Whole Cell lysates; Antibody Dilution: 1.0 ug/ml