

## Product datasheet for **TA348442**

### 5 Lipoygenase (ALOX5) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Phospho-ALOX5(Ser523) Antibody: A synthesized peptide derived from human ALOX5 around the phosphorylation site of Sersine 523
Formulation:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20?. Stable for 12 months from date of receipt
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	77 kDa
Gene Name:	arachidonate 5-lipoxygenase
Database Link:	<a href="#">NP_000689</a> <a href="#">Entrez Gene 25290 Rat</a> <a href="#">Entrez Gene 240 Human</a> <a href="#">P09917</a>



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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 have been observed, but their full-length nature has not been determined.

**Synonyms:**

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

**Note:**

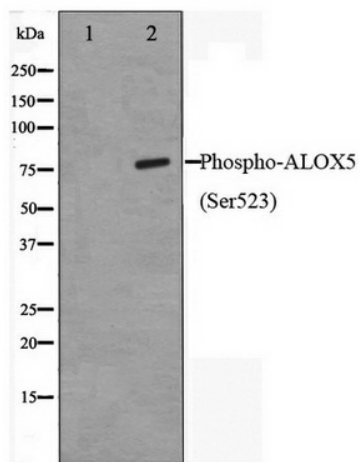
Phospho-ALOX5(Ser523) Antibody detects endogenous levels of ALOX5 only when phosphorylated at Sersine 523

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Arachidonic acid metabolism, Metabolic pathways

**Product images:**

Western blot analysis on HuvEc cell lysate using Phospho-ALOX5 (Ser523) Antibody