



## Rabbit Anti-Phospho-5-Lipoxygenase(Ser524) antibody

SL13777R

<b>Product Name:</b>	Phospho-5-Lipoxygenase(Ser524)
<b>Chinese Name:</b>	磷酸化5-脂氧合酶抗体
<b>Alias:</b>	5 Lipoxygenase (phospho S524)human mouse; p-5 Lipoxygenase (phospho S524)human mouse; 5 Lipoxygenase (phospho S523)rat; p-5 Lipoxygenase (phospho S523)rat; 5-lipoxygenase; 5 LO; 5LPG; ALOX 5; ALOX5; Arachidonate 5 lipoxygenase; Arachidonic acid 5 lipoxygenase; Leukotriene A4 synthase; LOG 5; LOG5; MGC163204; LOX5 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	78kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human 5-Lipoxygenase around the phosphorylation site of Ser524:KS(p-S)GF
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed:**[PubMed](#)

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. [provided by RefSeq, Jan 2012]

**Function:**

Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.

**Subunit:**

Interacts with ALOX5AP and LTC4S.

**Subcellular Location:**

Cytoplasm. Nucleus matrix. Nucleus membrane; Peripheral membrane protein.

**Product Detail:****Post-translational modifications:**

Serine phosphorylation by MAPKAPK2 is stimulated by arachidonic acid.

Phosphorylation on Ser-523 by PKA has an inhibitory effect. Phosphorylation on Ser-272 prevents export from the nucleus.

**Similarity:**

Belongs to the lipoxygenase family.

**SWISS:**

P09917

**Gene ID:**

240

**Database links:**

[Entrez Gene: 240](#) Human

[Entrez Gene: 25290](#) Rat

[Omim: 152390](#) Human

[SwissProt: P09917](#) Human

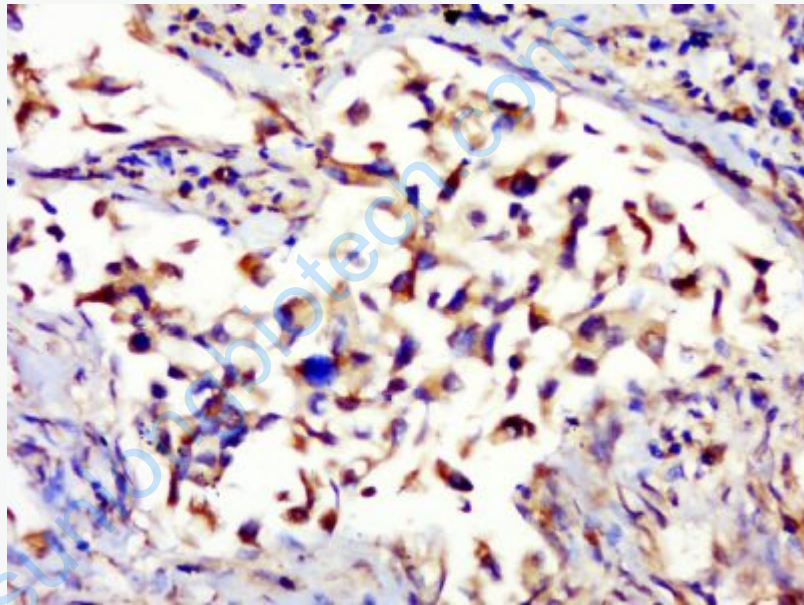
[SwissProt: P12527](#) Rat

[Unigene: 89499](#) Human

[Unigene: 9662](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (human lung cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-5-Lipoxygenase) Polyclonal Antibody, Unconjugated (SL13777R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.