

## ALOX5 (Phospho Ser663) Rabbit pAb

CatalogNo: YP1830

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, WB

#### MW

- 78kD (Observed)

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human ALOX5 (Phospho Ser663)

**Specificity** This antibody detects endogenous levels of ALOX5 (Phospho Ser663) Rabbit pAb at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): YLSPD

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## | Target Information

**Gene name** ALOX5 LOG5

**Protein Name** Arachidonate 5-lipoxygenase (5-LO) (5-lipoxygenase) (EC 1.13.11.34)

Organism	Gene ID	UniProt ID
Human	<a href="#">240</a> ;	<a href="#">P09917</a> ;
Mouse	<a href="#">11689</a> ;	<a href="#">P48999</a> ;
Rat	<a href="#">25290</a> ;	<a href="#">P12527</a> ;

**Cellular  
Localization**

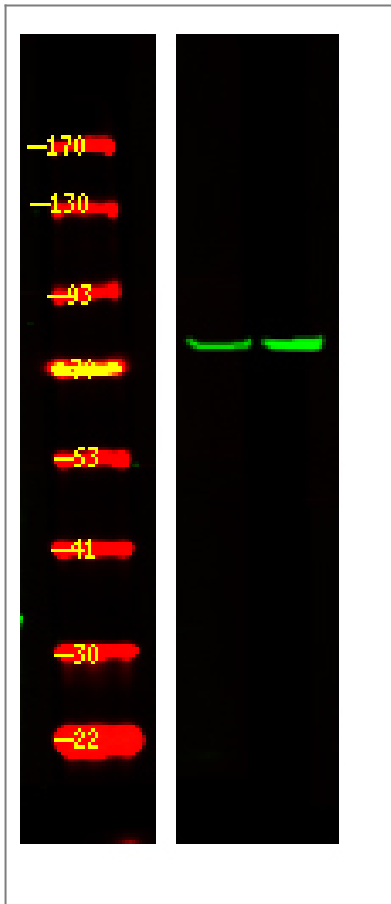
Cytoplasm . Nucleus matrix . Nucleus membrane ; Peripheral membrane protein . Cytoplasm , perinuclear region . Cytoplasm , cytosol . Nucleus envelope . Nucleus intermembrane space . Shuttles between cytoplasm and nucleus (PubMed:19233132) . Found exclusively in the nucleus , when phosphorylated on Ser-272 (PubMed:18978352) . Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association (PubMed:19233132 , PubMed:3118366 , PubMed:8245774 , PubMed:16275640) . .

**Function**

Catalytic activity:Arachidonate + O (2) = leukotriene A (4) + H (2) O. ,cofactor:Binds 1 iron ion per subunit. ,cofactor:Binds 2 calcium ions per subunit. ,Function:Catalyzes the first step in leukotriene biosynthesis , and thereby plays a role in inflammatory processes. ,pathway:Lipid metabolism; leukotriene A4 biosynthesis. ,PTM: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. ,similarity:Contains 1 lipoxygenase domain. ,similarity:Contains 1 PLAT domain. ,subcellular location:Shuttles between cytoplasm and nucleus. Found exclusively in the nucleus , when phosphorylated on Ser-272. Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association. ,subunit:Interacts with ALOX5AP and LTC4S. ,

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## | Validation Data



Western Blot analysis of mouse brain ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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**ALOX5 (Phospho Ser663) Rabbit pAb**

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