

# Product datasheet

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# ARG58231 anti-15 Lipoxygenase 2 antibody

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes 15 Lipoxygenase 2

Tested Reactivity Hu, Ms, Rat
Tested Application ICC/IF, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name 15 Lipoxygenase 2

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-200 of Human 15 Lipoxygenase 2 (NP\_001132.2).

Conjugation Un-conjugated

Alternate Names EC 1.13.11.33; 15-LOX-2; 15-lipoxygenase 2; Arachidonate 15-lipoxygenase type II; 15-LOX-B; Linoleate

13-lipoxygenase 15-LOb; EC 1.13.11.-; Arachidonate 15-lipoxygenase B

## **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:50 - 1:100
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse ovary	
Observed Size	76 kDa	

### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol ALOX15B

Gene Full Name arachidonate 15-lipoxygenase, type B

Background This gene encodes a member of the lipoxygenase family of structurally related nonheme iron

dioxygenases involved in the production of fatty acid hydroperoxides. The encoded protein converts arachidonic acid exclusively to 15S-hydroperoxyeicosatetraenoic acid, while metabolizing linoleic acid less effectively. This gene is located in a cluster of related genes and a pseudogene that spans approximately 100 kilobases on the short arm of chromosome 17. Alternatively spliced transcript

variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Non-heme iron-containing dioxygenase that catalyzes the stereo-specific peroxidation of free and esterified polyunsaturated fatty acids generating a spectrum of bioactive lipid mediators. Converts arachidonic acid to 15S-hydroperoxyeicosatetraenoic acid/(15S)-HPETE. Also acts on linoleic acid to produce 13-hydroxyoctadecadienoic acid/13-HPODE. Has no detectable 8S-lipoxygenase activity but reacts with (8S)-HPETE to produce (8S,15S)-diHPETE. May regulate progression through the cell cycle and cell proliferation. May also regulate cytokine secretion by macrophages and therefore play a role in the immune response. May also regulate macrophage differentiation into proatherogenic foam cells.

[UniProt]

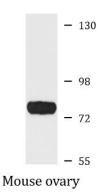
Calculated Mw 76 kDa

Cell membrane, Cytoplasm, Membrane, Nucleus, Peripheral membrane protein, cytoskeleton, cytosol.

[UniProt]

#### **Images**

Function



#### ARG58231 anti-15 Lipoxygenase 2 antibody WB image

Western blot:  $25 \mu g$  of Mouse ovary lysate stained with ARG58231 anti-15 Lipoxygenase 2 antibody at 1:1000 dilution.