

For Research Use Only

# 15 Lipoxygenase 2 Polyclonal antibody



Catalog Number: 13073-1-AP

1 Publications

## Basic Information

|                                                                                               |                                                           |                                                              |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| <b>Catalog Number:</b><br>13073-1-AP                                                          | <b>GenBank Accession Number:</b><br>BC035217              | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150UL, Concentration: 333 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>247                              | <b>Recommended Dilutions:</b><br>WB 1:500-1:3000             |
| <b>Source:</b><br>Rabbit                                                                      | <b>Full Name:</b><br>arachidonate 15-lipoxygenase, type B |                                                              |
| <b>Isotype:</b><br>IgG                                                                        | <b>Calculated MW:</b><br>676 aa, 76 kDa                   |                                                              |
| <b>Immunogen Catalog Number:</b><br>AG3741                                                    | <b>Observed MW:</b><br>67-76 kDa                          |                                                              |

## Applications

|                                             |                                                                                                                                                         |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA    | <b>Positive Controls:</b><br>WB: A431 cells, C2C12 cells, HEK-293 cells, HL-60 cells, HeLa cells, MCF-7 cells, MCF7 cells, mouse skeletal muscle tissue |
| <b>Cited Applications:</b><br>WB            |                                                                                                                                                         |
| <b>Species Specificity:</b><br>human, mouse |                                                                                                                                                         |
| <b>Cited Species:</b><br>mouse              |                                                                                                                                                         |

## Background Information

In humans, there are 6 functional lipoxygenases genes. Two of them encode for arachidonic acid 12-lipoxygenating (ALOX12, ALOX12B) and two for 15-lipoxygenating enzymes (ALOX15, ALOX15B). ALOX15B has been described as the most abundant 15-lipoxygenating enzyme species in human carotid atherosclerotic lesions and to be associated with cerebrovascular symptoms. (PMID:24373925). ALOX15B has 4 isoforms produced by alternative splicing with the MW of 76, 67, 69 and 73 kDa. 13073-1-AP can also recognize the mouse Alox8 protein.

## Notable Publications

| Author       | Pubmed ID | Journal          | Application |
|--------------|-----------|------------------|-------------|
| Huangao Zhou | 32474063  | J Chem Neuroanat | WB          |

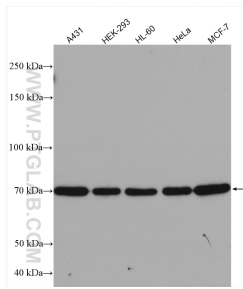
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



A431 cells were subjected to SDS PAGE followed by western blot with 13073-1-AP (15 Lipoxygenase 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.