

## ALOX12 polyclonal antibody

Catalog: BS75907

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Catalyzes the regio and stereo-specific incorporation of molecular oxygen into free and esterified polyunsaturated fatty acids generating lipid hydroperoxides that can be further reduced to the corresponding hydroxy species. Mainly converts arachidonate ((5Z,8Z,11Z,14Z-eicosatetraenoate to the specific bioactive lipid

(12S-hydroperoxyeicosatetraenoate)/(12S-HPETE).

Through the production of bioactive lipids like (12S-HPETE it regulates different biological processes including platelet activation. It can also catalyze the epoxidation of double bonds of polyunsaturated fatty acids such as (14S-hydroperoxy-docosahexaenoate)/(14S-HPDHA resulting in the formation of (13S,14S-epoxy-DHA. Furthermore, it may participate in the sequential oxidations of DHA ((4Z,7Z,10Z,13Z,16Z,19Z-docosahexaenoate to generate specialized pro-resolving mediators (SPMs like resolvin D5 ((7S,17S-diHPDHA and (7S,14S-diHPDHA, that actively downregulate the immune response and have anti-aggregation properties with platelets.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

76KDa

### Swiss-Prot:

P18054

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB,1:500 - 1:2000|IHC,1:50 - 1:200|IF,1:50 - 1:200

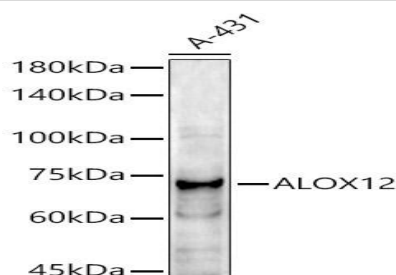
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

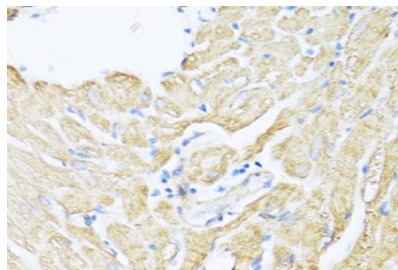
### Modification:

Unmodification

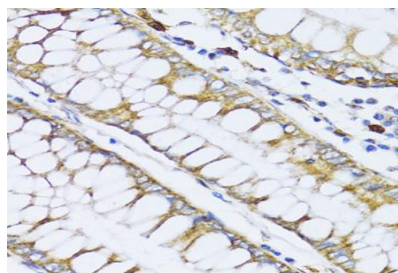
### DATA:



Western blot analysis of A-431, using ALOX12 antibody at 1:1140 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 180s.



Immunohistochemistry of paraffin-embedded rat heart using ALOX12 antibody at dilution of 1:100. Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human colon carcinoma

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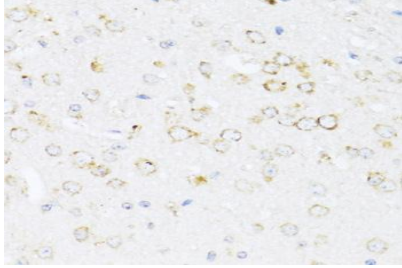
Fax: 0086-025-68035151



## PRODUCT DATA SHEET

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using ALOX12 antibody at dilution of 1:100 .Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse brain using ALOX12 antibody at dilution of 1:100 .Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC

staining protocol.

**Note:**

For research use only, not for use in diagnostic procedure.

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