

**ALOX12B Antibody (C-term) Blocking peptide**

Synthetic peptide

Catalog # BP10099b

**Specification**

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**ALOX12B Antibody (C-term) Blocking peptide - Product Information**

Primary Accession

[O75342](#)

Other Accession

[NP\\_001130.1](#)**ALOX12B Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 242

**Other Names**

Arachidonate 12-lipoxygenase, 12R-type, 12R-LOX, 12R-lipoxygenase, 11311-, Epidermis-type lipoxygenase 12, ALOX12B

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ALOX12B Antibody (C-term) Blocking peptide - Protein Information**Name ALOX12B ([HGNC:430](#))**Function**

Catalyzes the regio and stereo-specific incorporation of a single molecule of dioxygen into free and esterified polyunsaturated fatty acids generating lipid hydroperoxides that can be further reduced to the corresponding hydroxy species (PubMed: [21558561](http://www.uniprot.org/citations/21558561), PubMed: [9618483](http://www.uniprot.org/citations/9618483), PubMed: [9837935](http://www.uniprot.org/citations/9837935)). In the skin, acts upstream of ALOXE3 on the lineolate moiety of esterified omega-hydroxyacyl-sphingosine (EOS) ceramides to produce an epoxy-ketone derivative, a crucial step in the conjugation of omega-hydroxyceramide to membrane proteins (PubMed: [21558561](http://www.uniprot.org/citations/21558561)). Therefore plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss (PubMed: [21558561](http://www.uniprot.org/citations/21558561)). May also play a role in the regulation of the expression of airway mucins (PubMed: [22441738](http://www.uniprot.org/citations/22441738)).

**Cellular Location**

Cytoplasm {ECO:0000255|PROSITE-ProRule:PRU00726}. Cytoplasm, perinuclear region

**Tissue Location**

Expressed in B-cells, hair follicles, foreskin keratinocytes and adult skin. Also expressed in psoriatic tissue

**ALOX12B Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**ALOX12B Antibody (C-term) Blocking peptide - Images****ALOX12B Antibody (C-term) Blocking peptide - Background**

This gene encodes an enzyme involved in the conversion of arachidonic acid to 12R-hydroxyeicosatetraenoic acid. Mutations in this gene are associated with nonbullous congenital ichthyosiform erythroderma.

**ALOX12B Antibody (C-term) Blocking peptide - References**

Han, S., et al. Hum. Immunol. 71(7):727-730(2010) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010) Vahlquist, A., et al. J. Invest. Dermatol. 130(2):438-443(2010) Agarwal, S., et al. Exp. Dermatol. 18(11):939-946(2009) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 18(5):1651-1658(2009)