

ALOX12B Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10099b**Specification**

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:9837935, PubMed:9618483, PubMed:21558561). 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). Therefore plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss (PubMed:21558561). May also play a role in the regulation of the expression of airway mucins (PubMed: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)