

Rabbit ALOX12B Polyclonal Antibody | anti-ALOX12B antibody

ALOX12B Antibody (C-term)

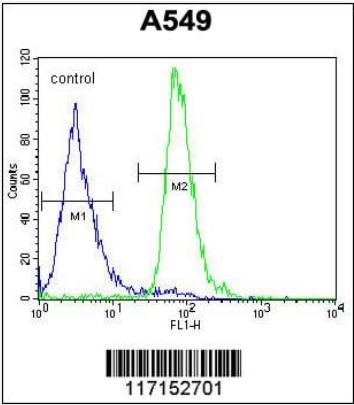
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283777	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

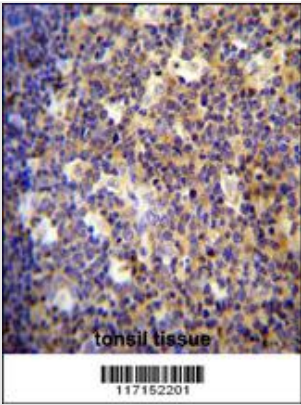
ALOX12B; Polyclonal Antibody; ALOX12B Antibody (C-term); Arachidonate 12-lipoxygenase; 12R-type; 12R-LOX; 12R-lipoxygenase; 11311-; Epidermis-type lipoxygenase 12; anti-ALOX12B antibody

PRODUCT SPECIFICATIONS

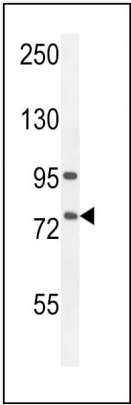
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALOX12B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 622-652 amino acids from the C-terminal region of human ALOX12B.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	622-652
Sequence Length	701
Applicable Applications for anti-ALOX12B antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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: , PubMed: , PubMed:). 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:). Therefore plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss (PubMed:). 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
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
ALOX12B Antibody (C-term)(AAA283777) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
ALOX12B antibody (C-term) (AAA283777) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ALOX12B antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
ALOX12B Antibody (C-term) (AAA283777) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the ALOX12B antibody detected the ALOX12B protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ALOX12B antibody	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.
Product Categories/Family for anti-ALOX12B antibody	Cardiovascular; Cell Biology; Metabolism; Signal Transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502053
NCBI GeneID	242
NCBI Accession #	NP_001130.1

NCBI GenBank Nucleotide #	NM_001139.2
UniProt Accession #	O75342
Molecular Weight	80356
NCBI Official Full Name	arachidonate 12-lipoxygenase, 12R-type
NCBI Official Synonym Full Names	arachidonate 12-lipoxygenase, 12R type
NCBI Official Symbol	ALOX12B
NCBI Official Synonym Symbols	ARCI2; 12R-LOX
NCBI Protein Information	arachidonate 12-lipoxygenase, 12R-type
UniProt Protein Name	Arachidonate 12-lipoxygenase, 12R-type
UniProt Gene Name	ALOX12B
UniProt Synonym Gene Names	12R-LOX; 12R-lipoxygenase
UniProt Entry Name	LX12B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/alox12b-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/283777>