Rabbit anti-Human Hydroperoxide isomerase ALOXE3 Polyclonal Antibody | anti-ALOXE3 antibody

Rabbit anti-human Hydroperoxide isomerase ALOXE3 polyclonal Antibody(ALOXE3)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA119212	**Rabbit**	**Human**	**Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

Hydroperoxide isomerase ALOXE3; Polyclonal Antibody; Rabbit anti-human Hydroperoxide isomerase ALOXE3 polyclonal Antibody(ALOXE3); Epidermis-type lipoxygenase 3; Epidermal LOX-3; e-LOX-3; eLOX-3; Hydroperoxy icosatetraenoate dehydratase; ALOXE3; anti-ALOXE3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Sequence Length	843
Applicable Applications for anti-ALOXE3 antibody	IHC (Immunohistochemistry), ELISA
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Conjugate	Non-conjugated
Immunogen	Recombinant human Hydroperoxide isomerase ALOXE3 protein (1-280aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-133273 / sc-133275
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES

IHC (Immunohiostchemistry)
Immunohistochemistry of paraffin-embedded human skin tissue using AAA119212 at dilution 1:100

IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human breast cancer using AAA119212 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-ALOXE3 antibody	Non-heme iron-containing lipoxygenase which is atypical in that it displays a prominent hydroperoxide isomerase activity and a reduced dioxygenase activity compared to other lipoxygenases. The hydroperoxide isomerase activity catalyzes the isomerization of hydroperoxides, derived from arachidonic and linoleic acid by ALOX12B, into hepoxilin-type epoxyalcohols. The dioxygenase activity requires a step of activation of the enzyme by molecular oxygen. In presence of oxygen, oxygenates polyunsaturated fatty acids, including arachidonic acid, to produce fatty acid hydroperoxides. In the skin, acts downstream of ALOX12B on the linoleate 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. Therefore plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss. In parallel, it may have a signaling function in barrier formation through the production of hepoxilins metabolites. Plays also a role in adipocyte differentiation through hepoxilin A3 and hepoxilin B3 production which in turn activate PPARG. Through the production of hepoxilins in the spinal cord, it may regulate inflammatory tactile allodynia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	260166612
NCBI GeneID	59344
NCBI Accession #	NP_001159432.1
NCBI GenBank Nucleotide #	NM_001165960.1
UniProt Accession #	Q9BYJ1; Q3ZB74; Q9H4F2; Q9HC22; B2R981; B7Z3W0
Molecular Weight	95,186 Da
NCBI Official Full Name	hydroperoxide isomerase ALOXE3 isoform 1
NCBI Official Synonym Full Names	arachidonate lipoxygenase 3
NCBI Official Symbol	ALOXE3
NCBI Official Synonym Symbols	ARCI3; E-LOX; eLOX3; eLOX-3
NCBI Protein Information	hydroperoxide isomerase ALOXE3
UniProt Protein Name	Hydroperoxide isomerase ALOXE3
UniProt Gene Name	**ALOXE3**
UniProt Synonym Gene Names	Epidermal LOX-3; e-LOX-3; eLOX-3
UniProt Entry Name	LOXE3_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://stage.aaabiotech.com/polyclonal/hydroperoxide-isomerase-aloxe3-antibody-immunohistochemistry-elisa/119212