

DATASHEET

ALOXE3 Rabbit Polyclonal Antibody

CAT. NO. APA13247

KEY FEATURES

Target	ALOXE3	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Non-heme iron-containing lipoxygenase which is atypical in that it displays a prominent hydroperoxide isomerase activity and a reduced lipoxygenases activity . The hydroperoxide isomerase activity catalyzes the isomerization of hydroperoxides, derived from arachidonic and linoleic acid by ALOX12B, into hepxilin-type epoxyalcohols and ketones . 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 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

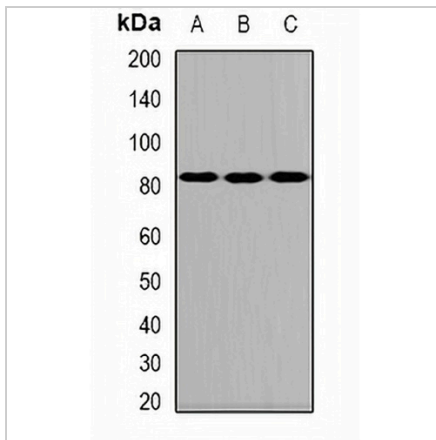
Description	Rabbit polyclonal antibody to ALOXE3
Specificity	Recognizes endogenous levels of ALOXE3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human ALOXE3
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 80; Observed: 81 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Hydroperoxide isomerase ALOXE3; Epidermis-type lipoxygenase 3; Epidermal LOX-3; e-LOX-3; eLOX-3
Gene Symbol	ALOXE3
Entrez Gene	59344(Human)
SwissProt	Q9BYJ1(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of ALOXE3 expression in MCF7 (A), mouse testis (B), rat intestine (C) whole cell lysates. (Predicted band size: 80; 95 kD; Observed band size: 81 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.