

ALOXE3 (N-14): sc-133273

BACKGROUND

ALOXE3 (arachidonate lipoxygenase 3), also known as E-LOX or eLOX3, is a 711 amino acid protein that is involved in lipid metabolism and contains one lipoxygenase domain and one PLAT domain. Expressed predominately in skin, ALOXE3 uses iron as a cofactor to introduce oxygen into polyunsaturated fatty acids and is thought to play an important role in the catabolism of leukotrienes (arachidonic acid-derived compounds which participate in inflammation and hypersensitivity). Defects in the gene encoding ALOXE3 are the cause of non-bullous congenital ichthyosiform erythroderma (NCIE), a skin disorder characterized by an abnormal cornification of the epidermis, with symptoms including scaling and red skin, as well as painful fissures resulting from palmoplantar keratoderma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ALOXE3 (human) mapping to 17p13.1.

SOURCE

ALOXE3 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of ALOXE3 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133273 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ALOXE3 (N-14) is recommended for detection of ALOXE3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ALOXE3 (N-14) is also recommended for detection of ALOXE3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ALOXE3 siRNA (h): sc-93941, ALOXE3 shRNA Plasmid (h): sc-93941-SH and ALOXE3 shRNA (h) Lentiviral Particles: sc-93941-V.

Molecular Weight of ALOXE3: 81 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.