

Product datasheet

Anti-ALDH3A2 antibody ab113111

★★★★★ 2 Abreviews 3 References 3 Images

Overview

Product name	Anti-ALDH3A2 antibody
Description	Rabbit polyclonal to ALDH3A2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment, corresponding to amino acids 166-400 of Human ALDH3A2 (BC002430).
Positive control	293T cell lysate, A549 cell lysate, Human fetal testis lysate, Human fetal skeletal muscle tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized:Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituent: 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab113111 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★☆☆☆☆ (1)	1/1000 - 1/2000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).
IHC-P	★★★★★ (1)	1/100 - 1/500.

Target

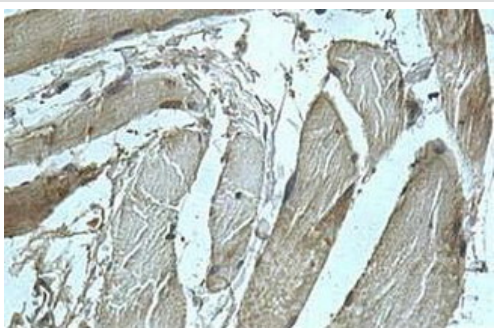
Relevance

Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Defects in ALDH3A2 are the cause of Sjogren-Larsson syndrome (SLS). SLS is an autosomal recessive neurocutaneous disorder characterized by a combination of severe mental retardation, spastic di- or tetraplegia and congenital ichthyosis (increased keratinization). Ichthyosis is usually evident at birth, neurologic symptoms appear in the first or second year of life. Most patients have an IQ of less than 60. Additional clinical features include glistening white spots on the retina, seizures, short stature and speech defects.

Cellular localization

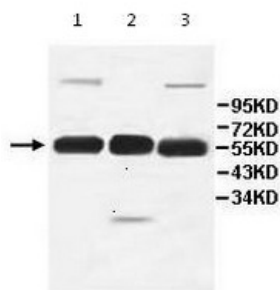
Endoplasmic reticulum membrane; Single-pass membrane protein; Cytoplasmic side.

Images



ab113111, at 1/100 dilution, staining ALDH3A2 in formalin-fixed, paraffin-embedded Human Fetal skeletal muscle by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH3A2 antibody (ab113111)



Western blot - Anti-ALDH3A2 antibody (ab113111)

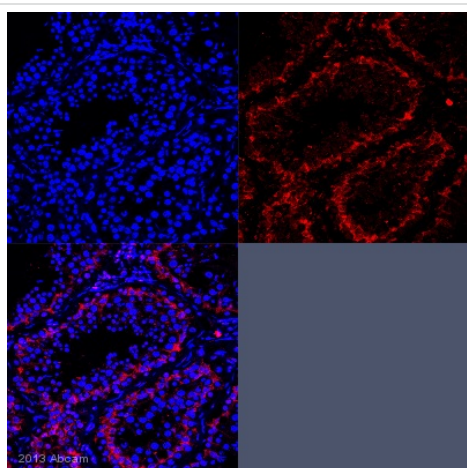
All lanes : Anti-ALDH3A2 antibody (ab113111) at 1/1000 dilution

Lane 1 : 293T cell lysate

Lane 2 : A549 cell lysate

Lane 3 : Human fetal testis lysate

Predicted band size: 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH3A2 antibody (ab113111)

This image is courtesy of an Abreview from Zachary Yu-Ching Lin.

IHC-P image of ALDH3A2 staining with ab113111 on tissue sections from adult marmoset testis. The sections were subjected to heat-mediated antigen retrieval using Dako antigen retrieval solution. The sections were then blocked with 5% milk for 30 minutes at 25°C, before incubation with ab113111 (1/100 dilution) for 18 hours at 4°C. The secondary was an Alexa-Fluor 555 conjugated goat anti-rabbit polyclonal, used at a 1/500 dilution.

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