abcam

Product datasheet

Anti-Aldose reductase antibody [CPTC-AKR1B1-2] ab268058

1 References   4 Images

Overview

Product name	Anti-Aldose reductase antibody [CPTC-AKR1B1-2]
Description	Mouse monoclonal [CPTC-AKR1B1-2] to Aldose reductase
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P, Protein Array, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to Human Aldose reductase aa 1-316. Database link: **P15121**
Positive control	WB: Hela cell lysate. ICH/ IF: A549 cells. IHC: Human prostate 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	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor concentrate
Clonality	Monoclonal
Clone number	CPTC-AKR1B1-2
Isotype	IgG1

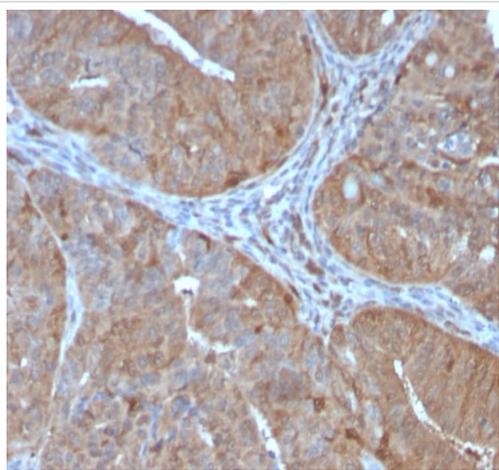| Light chain type	kappa

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab268058 in the following tested applications.

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

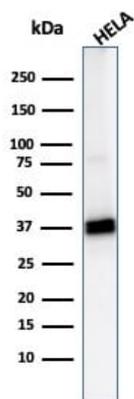| Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 35 kDa.
IHC-P		Use a concentration of 1 - 2 µg/ml. 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes.
Protein Array		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 2 µg/ml.

Target

Function	Catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols with a broad range of catalytic efficiencies.
Tissue specificity	Highly expressed in embryonic epithelial cells (EUE) in response to osmotic stress.
Sequence similarities	Belongs to the aldo/keto reductase family.
Cellular localization	Cytoplasm.

Images
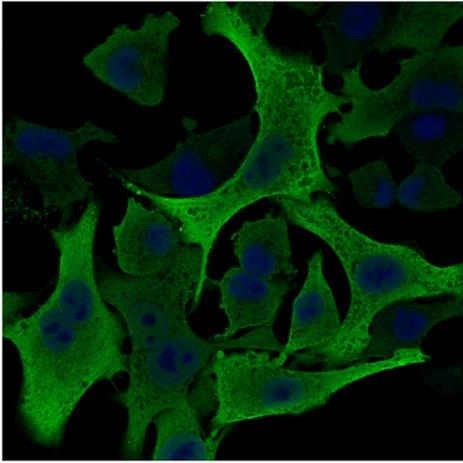
Formalin-fixed, paraffin-embedded human Prostate stained for Aldose reductase using ab268058 at 2 µg/ml in immunohistochemical analysis.

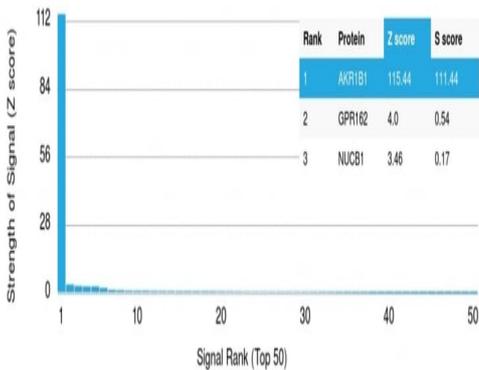Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aldose reductase antibody [CPTC-AKR1B1-2] (ab268058)

Anti-Aldose reductase antibody [CPTC-AKR1B1-2] (ab268058) at 2 µg/ml + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Predicted band size: 35 kDa

Western blot - Anti-Aldose reductase antibody [CPTC-AKR1B1-2] (ab268058)

Immunofluorescence staining of A549 cells labeling Aldose reductase with ab268058 at 2 ug/ml followed by a goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (Blue)

Immunocytochemistry/ Immunofluorescence - Anti-Aldose reductase antibody [CPTC-AKR1B1-2] (ab268058)

Protein Array - Anti-Aldose reductase antibody [CPTC-AKR1B1-2] (ab268058)

Protein Array containing more than 19,000 full-length human proteins using ab268058. Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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