

Rabbit anti-Human ALDH1A3 Polyclonal Antibody | anti-ALDH1A3 antibody

Anti-ALDH1A3 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258983	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

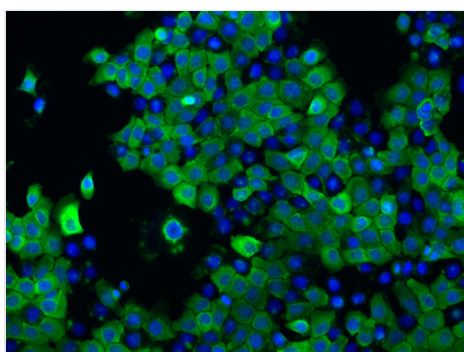
PRODUCT SYNONYMS

ALDH1A3; Polyclonal Antibody; Anti-ALDH1A3 Antibody; Rabbit Polyclonal; aldehyde dehydrogenase 1 family; member A3; Anti-ALDH1A6 Antibody; Anti-ALDH6 Antibody; Anti-MCOP8 Antibody; Anti-RALDH3 Antibody; anti-ALDH1A3 antibody

PRODUCT SPECIFICATIONS

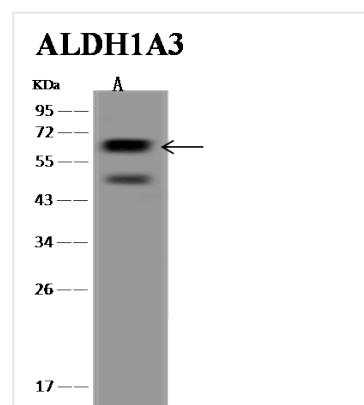
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ALDH1A3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-ALDH1A3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived Human ALDH1A3 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human ALDH1A3 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of ALDH1A3 in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human ALDH1A3 polyclonal antibody (dilution ratio 1:200) at 4° overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



WB (Western Blot)

Anti-ALDH1A3 rabbit polyclonal antibody at 1:500 dilution Lane A: U251MG Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 56 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH1A3 antibody	Aldehyde dehydrogenase 1 family, member A3 (ALDH1A3), also known as Retinaldehyde dehydrogenase 3 (RALDH3), which belongs to the aldehyde dehydrogenase family. ALDH1A3 is a novel Cancer stem cell (CSC) marker with potential clinical prognostic applicability, and demonstrates a clear correlation between CSC prevalence and the development of metastatic breast cancer. The retinoic acid (RA) biosynthesis enzyme aldehyde dehydrogenase 1A3 (ALDH1A3) is a putative androgen-responsive gene in human prostate cancer epithelial (LNCaP) cells. The RA biosynthesis enzyme ALDH1A3 is androgen responsive and (ii) DHT up-regulation of ALDH1A3 can increase the oxidation of retinal to RA and indirectly affect RA bioactivity and metabolism.
References	Marcato P, et al. (2011) Aldehyde dehydrogenase activity of breast cancer stem cells is primarily due to isoform ALDH1A3 and its expression is predictive of metastasis. Stem Cells. 29(1)32-45.Trasino SE, et al. (2007) Androgen regulation of aldehyde dehydrogenase 1A3 (ALDH1A3) in the androgen-responsive human prostate cancer cell line LNCaP. Exp Biol Med (Maywood). 232(6): 762-71.

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://www.aaabiotech.com/polyclonal/aldh1a3-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/258983>