

Rabbit ALDH1A1 Polyclonal Antibody | anti-ALDH1A1 antibody

ALDH1A1 Antibody (Center)

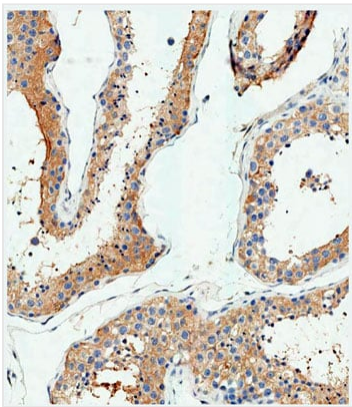
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285731	Rabbit	Human, rat (Predicted Reactivity: Monkey)	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

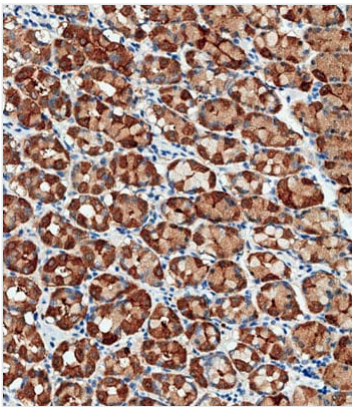
ALDH1A1; Polyclonal Antibody; ALDH1A1 Antibody (Center); Retinal dehydrogenase 1; RALDH 1; RaIDH1; ALDH-E1; ALHDII; Aldehyde dehydrogenase family 1 member A1; Aldehyde dehydrogenase; cytosolic; ALDC; ALDH1; PUMB1; anti-ALDH1A1 antibody

PRODUCT SPECIFICATIONS

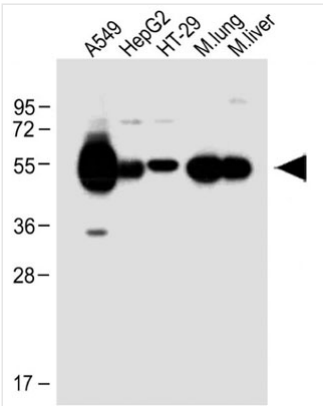
Host	Rabbit
Reactivity	Human, rat (Predicted Reactivity: Monkey)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH1A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 306-339 amino acids from the Central region of human ALDH1A1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	501
Applicable Applications for anti-ALDH1A1 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Cellular location	Cytoplasm, cytosol. Cell projection, axon.
Tissue location	Expressed by erythrocytes (at protein level).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20° in small aliquots to prevent freeze-thaw cycles.



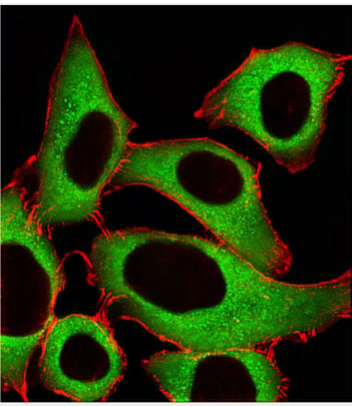
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human testis tissue using AAA285731 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human stomach tissue using AAA285731 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



WB (Western Blot)
All lanes: Anti-ALDH1A1 Antibody (Center) at 1:1000 dilution
Lane 1: A549 whole cell lysate
Lane 2: HepG2 whole cell lysate
Lane 3: HT-29 whole cell lysate
Lane 4: Mouse lung lysate
Lane 5: Mouse liver lysate
Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



IF (Immunofluorescence)
Fluorescent image of A549 cells stained with ALDH1A1 Antibody (Center)(Cat#AAA285731). AAA285731 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH1A1 antibody	Binds free retinal and cellular retinol-binding protein- bound retinal. Can convert/oxidize retinaldehyde to retinoic acid (By similarity).
Product Categories/Family for anti-ALDH1A1 antibody	Crown Antibodies; Cancer; Neuroscience; Signal Transduction
References	Hsu L.C.,et al.Genomics 5:857-865(1989). Zheng C.F.,et al.Alcohol. Clin. Exp. Res. 17:828-831(1993). Ramana K.V.,et al.Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases. Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Humphray S.J.,et al.Nature 429:369-374(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361176
NCBI GeneID	216

NCBI Accession #	NP_000680.2
NCBI GenBank Nucleotide #	NM_000689.4
UniProt Accession #	P00352 ; O00768 ; Q5SYR1
Molecular Weight	54862
NCBI Official Full Name	retinal dehydrogenase 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family, member A1
NCBI Official Symbol	ALDH1A1
NCBI Official Synonym Symbols	ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e
NCBI Protein Information	retinal dehydrogenase 1
UniProt Protein Name	Retinal dehydrogenase 1
UniProt Gene Name	ALDH1A1
UniProt Synonym Gene Names	ALDC; ALDH1; PUMB1; RALDH 1; RaIDH1
UniProt Entry Name	AL1A1_HUMAN

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/aldh1a1-antibody-western-blot-immunofluorescence-elisa/285731>