

Rabbit AKR1B10 Polyclonal Antibody | anti-AKR1B10 antibody

Anti-AKR1B10 Picoband Antibody

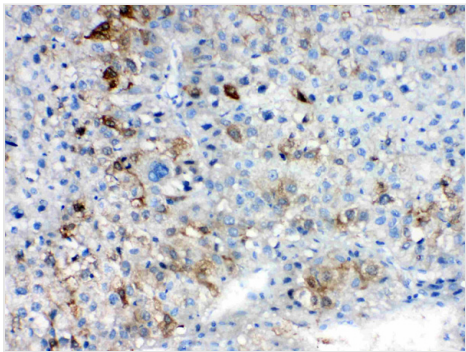
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124700	Rabbit	Human No cross reactivity with other proteins	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

AKR1B10; Polyclonal Antibody; Anti-AKR1B10 Picoband Antibody; Aldo-keto reductase family 1 member B10; 1.1.1.-; ARL-1; Aldose reductase-like; Aldose reductase-related protein; ARP; hARP; Small intestine reductase; SI reductase; AKR1B11; anti-AKR1B10 antibody

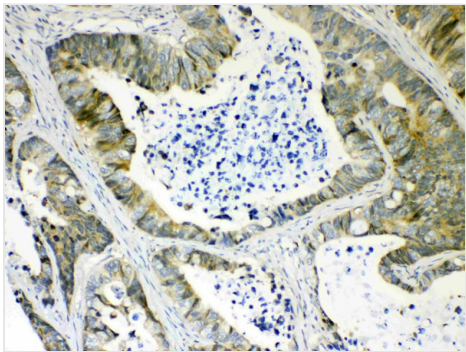
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human No cross reactivity with other proteins
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	316
Applicable Applications for anti-AKR1B10 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human AKR1B10 (285-316aa EMATILSFNRNWRACNVLQSSHLEDYPFNAEY).
Subcellular Localization	Lysosome. Secreted. Secreted through a lysosome-mediated non-classical pathway.
Tissue Specificity	Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



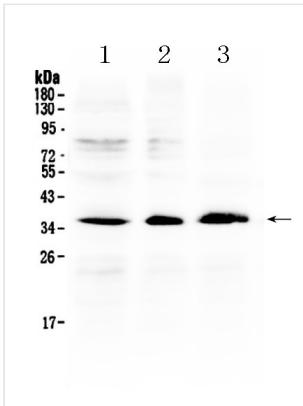
IHC (Immunohistochemistry)

Figure 3. IHC analysis of AKR1B10 using anti- AKR1B10 antibody (AAA124700).AKR1B10 was detected in paraffin-embedded section of human liver cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- AKR1B10 Antibody (AAA124700) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of AKR1B10 using anti- AKR1B10 antibody (AAA124700).AKR1B10 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- AKR1B10 Antibody (AAA124700) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of AKR1B10 using anti- AKR1B10 antibody (AAA124700).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: HELA whole Cell lysates,Lane 2: COLO320 whole Cell lysates,Lane 3: SW620 whole Cell lysates,After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- AKR1B10 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AKR1B10 at approximately 36KD. The expected band size for AKR1B10 is at 36KD.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1B10 antibody

Description: Aldo-keto reductase family 1 member B10 is an enzyme that in humans is encoded by the AKR1B10 gene. This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis.

Protein Function: Acts as all-trans-retinaldehyde reductase. Can efficiently reduce aliphatic and aromatic aldehydes, and is less active on hexoses (in vitro). May be responsible for detoxification of reactive aldehydes in the digested food before the nutrients are passed on to other organs.

Product Categories/Family for anti-AKR1B10 antibody

Signal Transduction; Metabolism; Energy Metabolism; Signal Transduction; Drug Metabolism; Cancer; Tumor Biomarkers; Enzymes; Metabolism; Pathways and Processes; Metabolic Signaling Pathways; Energy Transfer Pathways; Types of Disease

NCBI AND UNIPROT INFORMATION

NCBI GI #	223468663
NCBI GeneID	57016
NCBI Accession #	NP_064695.3
NCBI GenBank Nucleotide #	NM_020299.4
UniProt Accession #	O60218; O75890; Q6FHF3; Q8IWZ1; A4D1P1
Molecular Weight	36020 MW
NCBI Official Full Name	aldo-keto reductase family 1 member B10
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member B10
NCBI Official Symbol	AKR1B10
NCBI Official Synonym Symbols	HIS; HSI; ARL1; ARL-1; ALDRLn; AKR1B11; AKR1B12
NCBI Protein Information	aldo-keto reductase family 1 member B10
UniProt Protein Name	Aldo-keto reductase family 1 member B10
UniProt Gene Name	AKR1B10
UniProt Synonym Gene Names	AKR1B11; ARP; hARP; SI reductase

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/akr1b10-antibody-western-blot-immunohistochemistry-elisa/124700>