

Rabbit AKR1A1 Polyclonal Antibody | anti-AKR1A1 antibody

AKR1A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325994	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

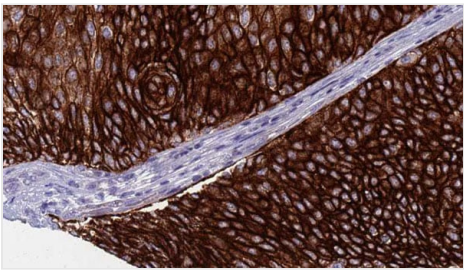
PRODUCT SYNONYMS

AKR1A1; Polyclonal Antibody; AKR1A1 Antibody; AK1A1_HUMAN; Akr1a1; Alcohol dehydrogenase [NADP+]; Alcohol dehydrogenase; Aldehyde reductase; Aldo keto reductase family 1 member A1 (aldehyde reductase); Aldo-keto reductase family 1 member A1; ALDR1; ALR; ARM; DD3; MGC12529; MGC1380; anti-AKR1A1 antibody

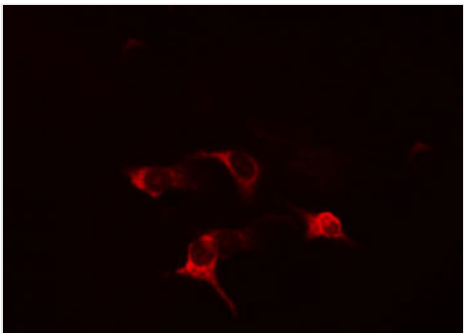
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AKR1A1 antibody detects endogenous levels of total AKR1A1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	325
Applicable Applications for anti-AKR1A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AKR1A1
Tissue Specificity	Widely expressed. Highly expressed in kidney, salivary gland and liver. Detected in trachea, stomach, brain, lung, prostate, placenta, mammary gland, small intestine and lung.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

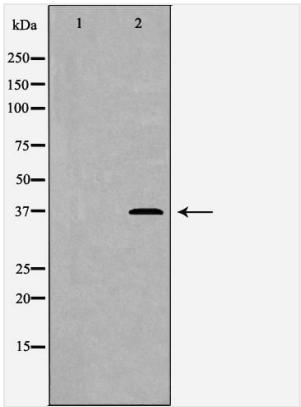
IMAGES



IHC (Immunohistochemistry)
AAA325994 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA325994 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of Y79 using AKR1A antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1A1 antibody	Description: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member, also known as aldehyde reductase, is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Multiple alternatively spliced transcript variants of this gene exist, all encoding the same protein. [provided by RefSeq, Jan 2011] Function: Catalyzes the NADPH-dependent reduction of a variety of aromatic and aliphatic aldehydes to their corresponding alcohols. Catalyzes the reduction of mevaldate to mevalonic acid and of glyceraldehyde to glycerol. Has broad substrate specificity. In vitro substrates include succinic semialdehyde, 4-nitrobenzaldehyde, 1, 2-naphthoquinone, methylglyoxal, and D-glucuronic acid. Plays a role in the activation of procarcinogens, such as polycyclic aromatic hydrocarbon trans-dihydrodiols, and in the metabolism of various xenobiotics and drugs, including the anthracyclines doxorubicin (DOX) and daunorubicin (DAUN). Subunit Structure: Monomer. Similarity: Belongs to the aldo/keto reductase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	320202988
NCBI GeneID	10327
NCBI Accession #	NP_001189342.1
NCBI GenBank Nucleotide #	NM_001202413.1
UniProt Accession #	P14550; Q6IAZ4; A8KAL8; D3DQ04

Molecular Weight	Observed: 37 kDa Predicted: 37 kDa
NCBI Official Full Name	alcohol dehydrogenase
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member A1
NCBI Official Symbol	AKR1A1
NCBI Official Synonym Symbols	ALR; ARM; DD3; ALDR1; HEL-S-6
NCBI Protein Information	alcohol dehydrogenase [NADP(+)]
UniProt Protein Name	Alcohol dehydrogenase [NADP(+)]
UniProt Gene Name	AKR1A1
UniProt Synonym Gene Names	ALDR1; ALR

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://stage.aaabiotech.com/polyclonal/akr1a1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325994>