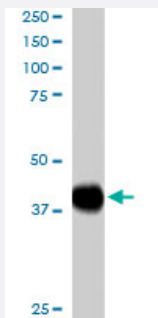


AKR1A1 polyclonal antibody

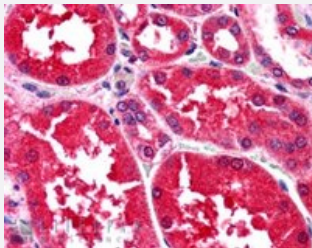
Catalog # PAB6212 Size 100 ug

Applications



Western Blot (Tissue lysate)

AKR1A1 polyclonal antibody (Cat # PAB6212) staining (1 ug/mL) of human placenta lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

AKR1A1 polyclonal antibody (Cat # PAB6212) (2.5g/ml) staining of paraffin embedded human kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of AKR1A1.
Immunogen	A synthetic peptide corresponding to human AKR1A1.
Sequence	C-DAGHPLYPFNDPY
Host	Goat
Theoretical MW (kDa)	36.6
Reactivity	Human

Specificity	This antibody is expected to recognize both variants (NP_006057.1 and NP_697021.1) represent identical protein.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000) Western blot (0.1-0.3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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AKR1A1 polyclonal antibody (Cat # PAB6212) staining (1 ug/mL) of human placenta lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — AKR1A1

Entrez GeneID	10327
Protein Accession#	NP_006057.1;NP_697021.1
Gene Name	AKR1A1
Gene Alias	ALDR1, ALR, ARM, DD3, MGC12529, MGC1380

Gene Description	aldo-keto reductase family 1, member A1 (aldehyde reductase)
Omim ID	103830
Gene Ontology	Hyperlink
Gene Summary	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. Alternative splicing of this gene results in two transcript variants encoding the same protein. [provided by RefSeq]
Other Designations	OTTHUMP00000009240 OTTHUMP00000009241 alcohol dehydrogenase aldehyde reductase aldo-keto reductase family 1, member A1 dihydrodiol dehydrogenase 3

Publication Reference

- [The structural organization of the human aldehyde reductase gene, AKR1A1, and mapping to chromosome 1p33-->p32.](#)

Fujii J, Hamaoka R, Matsumoto A, Fujii T, Yamaguchi Y, Egashira M, Miyoshi O, Niikawa N, Taniguchi N.

Cytogenetics and Cell Genetics 1999 Jan; 84(3-4):230.

Pathway

- [Caprolactam degradation](#)
- [Glycerolipid metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)

- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)