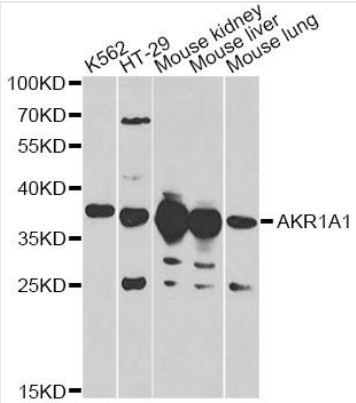
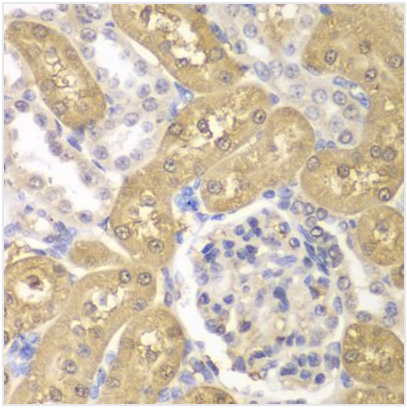
AKR1A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

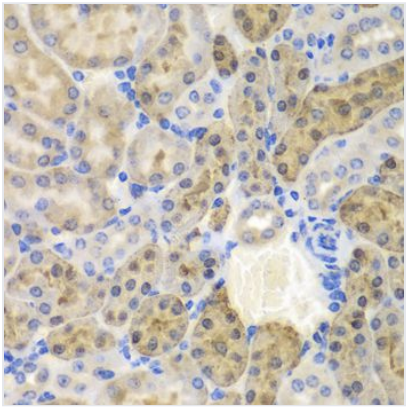
Product Name	AKR1A1, Polyclonal Antibody
Full Product Name	AKR1A1 Polyclonal Antibody
Product Gene Name	anti-AKR1A1 antibody
Product Synonym Names	ALDR1; ALR; ARM; DD3; HEL-S-6
Immunogen Sequence	MAASCVLLHT GQKMPLIGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL KEDVGPGKAV PREELFVTSK LWNTKHHPED VEPALRKTLA DLQLEYLDLY LMHWPYAFER GDNPFPKNAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNSRQID DILSVASVRP AVLQVECHPY LAQNELIAHC QARGLEVTAY SPLGSSDRAW RDPDEPVLLE EPVVLALAEK YGRSPAQILL RWQVQ
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated: 36kDa Observed: 37kDa
OMIM	J04794 mRNA
3D Structure	ModBase 3D Structure for P14550
Immunogen	Recombinant protein of human AKR1A1
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-AKR1A1 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AKR1A1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-AKR1A1 antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200 IF: 1:50 - 1:200
Related Product Information for anti-AKR1A1 antibody	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.
Other Notes	Small volumes of anti-AKR1A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AKR1A1 purchase	MBS9133612 is an antibody targeting AKR1A1. Also known as AKR1A1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



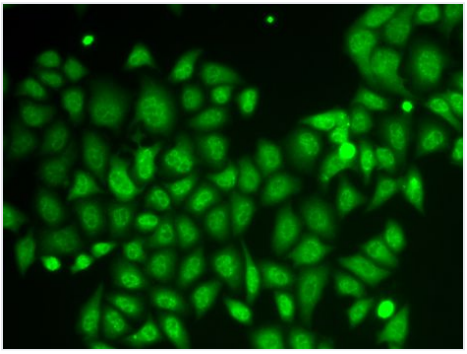
Western Blot (WB) of anti-AKR1A1 antibody
Western blot analysis of extracts of various cell lines, using AKR1A1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.



Immunohistochemistry (IHC) of anti-AKR1A1 antibody
Immunohistochemistry of paraffin-embedded rat kidney using AKR1A1 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-AKR1A1 antibody
Immunohistochemistry of paraffin-embedded mouse kidney using AKR1A1 antibody at dilution of 1:100 (40x lens).



Immunofluorescence (IF) of anti-AKR1A1 antibody
Immunofluorescence analysis of HeLa cells using AKR1A1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKR1A1. It may not necessarily be applicable to this product.

NCBI GI #	320202988
NCBI GeneID	10327
NCBI Accession #	NP_001189342.1
UniProt Primary Accession #	P14550
UniProt Secondary Accession #	Q6IAZ4; A8KAL8; D3DQ04
UniProt Related Accession #	P14550
GenBank Nucleotide #	NM_001202413.1
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
UniProt Protein Name	Alcohol dehydrogenase [NADP(+)]
UniProt Synonym Protein Names	Aldehyde reductase; Aldo-keto reductase family 1 member A1
Protein Family	Alcohol dehydrogenase

UniProt Gene Name	AKR1A1
UniProt Synonym Gene Names	ALDR1; ALR
NCBI Protein Information	alcohol dehydrogenase [NADP(+)]
UniProt Comments for AKR1A1	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).
Research Articles on AKR1A1	**1.** prostaglandin F synthase activity of human and bovine aldo-keto reductases
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