Rabbit anti-Human, Mouse AKR7A2 Polyclonal Antibody | anti-AKR7A2 antibody

AKR7A2 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36947	**Rabbit**	**Human, Mouse**	**Immunofluorescence, Immunohistochemistry, Western Blot**

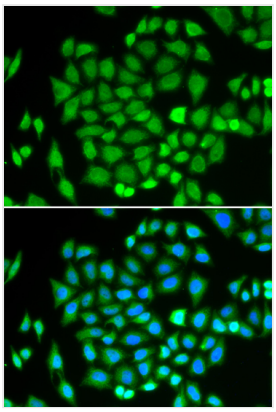
PRODUCT SYNONYMS

AKR7A2; Polyclonal Antibody; AKR7A2 Polyclonal Antibody; AFAR; AFAR1; AFB1-AR1; AKR7; anti-AKR7A2 antibody

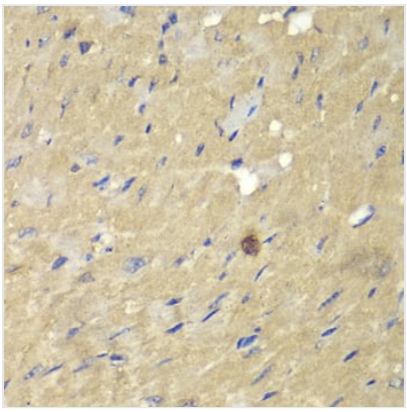
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	359
Applicable Applications for anti-AKR7A2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human AKR7A2
Calculated Molecular Weight	40kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

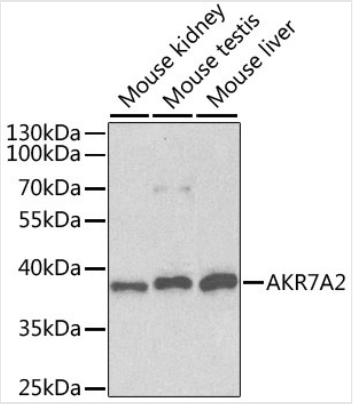
IMAGES



IF (Immunofluorescence)
Immunofluorescence analysis of HeLa cells using AKR7A2 antibody. Blue: DAPI for nuclear staining.



IHC (Immunohiostchemistry)
Immunohistochemistry of paraffin-embedded mouse heart using AKR7A2 antibody at dilution of 1:100 (40x lens).



WB (Western Blot)
Western blot analysis of extracts of various cell lines, using AKR7A2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR7A2 antibody	The protein encoded by this gene belongs to the aldo/keto reductase (AKR) superfamily and AKR7 family, which are involved in the detoxification of aldehydes and ketones. The AKR7 family consists of 3 genes that are present in a cluster on the p arm of chromosome 1. This protein, thought to be localized in the golgi, catalyzes the NADPH-dependent reduction of succinic semialdehyde to the endogenous neuromodulator, gamma-hydroxybutyrate. It may also function as a detoxication enzyme in the reduction of aflatoxin B1 and 2-carboxybenzaldehyde. [provided by RefSeq, Oct 2011]
Product Categories/Family for anti-AKR7A2 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	38372871
NCBI GeneID	8574
UniProt Accession #	O43488; O75749; Q5TG63
Molecular Weight	359
NCBI Official Full Name	Aflatoxin B1 aldehyde reductase member 2
NCBI Official Synonym Full Names	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
NCBI Official Symbol	AKR7A2
NCBI Official Synonym Symbols	AFAR; AKR7; AFAR1; AFB1-AR1
NCBI Protein Information	aflatoxin B1 aldehyde reductase member 2; AFB1-AR 1; HEL-S-166mP; SSA reductase; aldoketoreductase 7; AFB1 aldehyde reductase 1; succinic semialdehyde reductase; aflatoxin beta1 aldehyde reductase; epididymis secretory sperm binding protein Li 166mP
UniProt Protein Name	Aflatoxin B1 aldehyde reductase member 2
UniProt Gene Name	**AKR7A2**
UniProt Synonym Gene Names	AFAR; AFAR1; AKR7; AFB1-AR 1; SSA reductase
UniProt Entry Name	ARK72_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.