

Rabbit AKR1C3 Polyclonal Antibody | anti-AKR1C3 antibody

AKR1C3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326378	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AKR1C3; Polyclonal Antibody; AKR1C3 Antibody; 17 beta HSD 5; 17 beta hydroxysteroid dehydrogenase type 5; 17-beta-HSD 5; 17-beta-hydroxysteroid dehydrogenase type 5; 2-dihydrobenzene-1; 2-diol dehydrogenase; 20-alpha-hydroxysteroid dehydrogenase; 3 alpha hydroxysteroid dehydrogenase type II; 3-alpha-HSD type 2; 3-alpha-HSD type II; brain; 3-alpha-hydroxysteroid dehydrogenase type 2; AK1C3_HUMAN; AKR1 C3; Akr1c18; Aldo keto reductase family 1 member C3; Aldo-keto reductase family 1 member C3; Chlordecone reductase; Chlordecone reductase homolog HAKRb; DD-3; DD3; DDH1; DDX; Dihydrodiol dehydrogenase 3; Dihydrodiol dehydrogenase type I; Dihydrodiol dehydrogenase X; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; Indanol dehydrogenase; KIAA0119; PGFS; Prostaglandin F synthase; Testosterone 17-beta-dehydrogenase 5; Trans-1; Type IIb 3 alpha hydroxysteroid dehydrogenase; anti-AKR1C3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AKR1C3 antibody detects endogenous levels of total AKR1C3
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	323
Applicable Applications for anti-AKR1C3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AKR1C3
Subcellular Location	Cytoplasm.
Tissue Specificity	Expressed in many tissues including adrenal gland, brain, kidney, liver, lung, mammary gland, placenta, small intestine, colon, spleen, prostate and testis. The dominant HSD in prostate and mammary gland. In the prostate, higher levels in epithelial cells than in stromal cells. In the brain, expressed in medulla, spinal cord, frontotemporal lobes, thalamus, subthalamic nuclei and amygdala. Weaker expression in the hippocampus, substantia nigra and caudate.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326378 staining HepG2 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 extracts from mouse brain, using AKR1C3 Antibody.



IHC (Immunohistochemistry)

AAA326378 staining Mouse spleen 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.



WB (Western Blot)

Western blot analysis of extracts of Jurkat, using AKR1C3 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326378 staining HeLa 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.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1C3 antibody	Description: AKR1C3(Aldo-keto reductase family 1 member C3) is also named as DDH1, HSD17B5, KIAA0119, PGFS and belongsi to AKR1C family..In humans, at least four AKR1C isoforms exist: AKR1C1, AKR1C2, AKR1C3, AKR1C4 and AKR1C3 shares >86% sequence identity with these three highly related human AKRs(PMID:18574251). It catalyzes the conversion of aldehydes and ketones to alcohols and androgen, estrogen, PG, xenobiotics metabolism. The rat kidney possesses a dimeric form of 75 kDa(PMID:18574251). Function: Catalyzes the conversion of aldehydes and ketones to alcohols. Catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha, 11-beta-PGF2 to PGD2. Functions as a bi-directional 3-alpha-, 17-beta-and 20-alpha HSD. Can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites. Preferentially transforms androstenedione (4-dione) to testosterone. Similarity: Belongs to the aldo/keto reductase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	359806990
NCBI GeneID	8644
NCBI Accession #	NP_001240837.1
NCBI GenBank Nucleotide #	NM_001253908.1
UniProt Accession #	P42330; Q5T2L1; Q96DJ1; Q96KI8; Q99530; Q9UCX1; Q9UII3; Q9UKL9; A8K2V0; B4DL37
Molecular Weight	Observed: 37 kDa Predicted: 37 kDa
NCBI Official Full Name	aldo-keto reductase family 1 member C3 isoform 2

NCBI Official Synonym Full Names	aldo-keto reductase family 1 member C3
NCBI Official Symbol	AKR1C3
NCBI Official Synonym Symbols	DD3; DDX; PGFS; HAKRB; HAKRe; HA1753; HSD17B5; hluPGFS
NCBI Protein Information	aldo-keto reductase family 1 member C3
UniProt Protein Name	Aldo-keto reductase family 1 member C3
UniProt Gene Name	AKR1C3
UniProt Synonym Gene Names	DDH1; HSD17B5; KIAA0119; PGFS; 17-beta-HSD 5; 3-alpha-HSD type 2; DD-3; DD3; PGFS

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/akr1c3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326378>