

Mouse anti-Human AKR1C1 Monoclonal Antibody | anti-AKR1C1 antibody

AKR1C1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48091	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

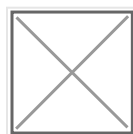
PRODUCT SYNONYMS

AKR1C1; Monoclonal Antibody; AKR1C1 antibody; Aldo-keto reductase family 1 member C1; 20-alpha-HSD; DD1/DD2; HBAB; DDH; DDH1; Aldo-keto reductase family 1; member C1 20 alpha (3 alpha) hydroxysteroid dehydrogenase; 20 alpha hydroxysteroid dehydrogenase; 2ALPHAHSD; AK1C1; MBAB; Aldo keto reductase family 1 member C1; C9; Chlordecone reductase homolog; Chlordecone reductase homolog HAKRC; DD1; Dihydrodiol dehydrogenase 1; Dihydrodiol dehydrogenase 1/2; H37; HAKRC; Hepatic dihydrodiol dehydrogenase; High affinity hepatic bile acid-binding protein; Trans-1; 2 dihydrobenzene 1; 2 diol dehydrogenase; Type II 3 alpha hydroxysteroid dehydrogenase; ; anti-AKR1C1 antibody

PRODUCT SPECIFICATIONS

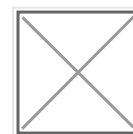
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT6D10
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	323
Applicable Applications for anti-AKR1C1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human AKR1C1 (1-323aa) purified from E. coli
Clone Note	Anti-human AKR1C1 mAb, clone AT6D10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AKR1C1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of AKR1C1 in A431 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AKR1C1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The Recombinant protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKR1C1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant Human AKR1C1 Lane 2. : HepG2 cell lysate Lane 3. : Raji cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1C1 antibody	The human aldo-keto reductases 1C1 and 1C3 (AKR1C1 and AKR1C3) have major roles in pre receptor regulation of progesterone action. They can both convert progesterone to the less potent efficiencies. AKR1C1 and AKR1C3 also act as 3-ketosteroid reductase, and as such they can convert the most potent androgen 5alpha-DHT into 3beta-andorstandiol, which is an estrogen receptor beta ligand, and into the inactive androgen 3alpha-androstrnionl, respectively.
Product Categories/Family for anti-AKR1C1 antibody	Metabolism
References	L.C. Giudice, et al. (2004) Lancet. 3644: 1789-1799; P.G. Hompes, et al. (2007) Gynecol. Endocrinol. 23: 5-12.; K.J. Berkley, et al. (2005) Science 308: 1587-1589.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453543
NCBI GeneID	1645
NCBI Accession #	NP_001344
NCBI GenBank Nucleotide #	NM_001353.5
UniProt Accession #	Q04828; P52896; Q5SR15; Q7M4N2; Q9UCX2
Molecular Weight	36,788 Da
NCBI Official Full Name	aldo-keto reductase family 1 member C1
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member C1
NCBI Official Symbol	AKR1C1
NCBI Official Synonym Symbols	C9; DD1; DDH; DDH1; H-37; HBAB; MBAB; HAKRC; DD1/DD2; 2-ALPHA-HSD; 20-ALPHA-HSD
NCBI Protein Information	aldo-keto reductase family 1 member C1
UniProt Protein Name	Aldo-keto reductase family 1 member C1
UniProt Gene Name	AKR1C1
UniProt Synonym Gene Names	DDH; DDH1; 20-alpha-HSD; DD1/DD2; HBAB

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.