

ARG56997 anti-AKR1C1 antibody [6D10]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [6D10] recognizes AKR1C1
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	6D10
Isotype	IgG1, kappa
Target Name	AKR1C1
Species	Human
Immunogen	Recombinant fragment around aa. 1-323 of Human AKR1C1.
Conjugation	Un-conjugated
Alternate Names	20-alpha-hydroxysteroid dehydrogenase; Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; EC 1.1.1.112; EC 1.1.1.-; 20-alpha-HSD; Chlordecone reductase homolog HAKRC; DD1; HBAB; C9; DD1/DD2; High-affinity hepatic bile acid-binding protein; Indanol dehydrogenase; 20-ALPHA-HSD; Aldo-keto reductase family 1 member C1; DDH1; EC 1.1.1.149; H-37; MBAB; EC 1.3.1.20; DDH; Dihydrodiol dehydrogenase 1/2; HAKRC; 2-ALPHA-HSD

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

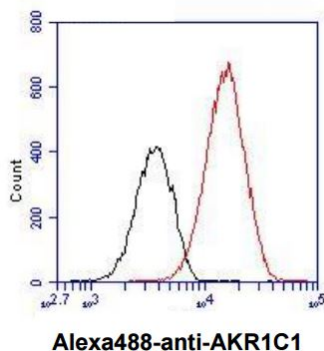
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

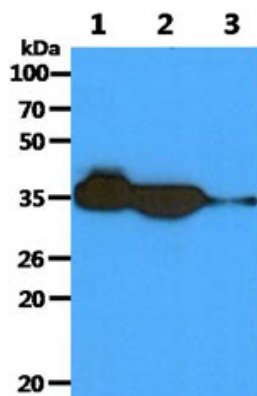
Database links	GeneID: 1645 Human Swiss-port # Q04828 Human
Gene Symbol	AKR1C1
Gene Full Name	aldo-keto reductase family 1, member C1
Background	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq, Jul 2008]
Function	Converts progesterone to its inactive form, 20-alpha-dihydroxyprogesterone (20-alpha-OHP). In the liver and intestine, may have a role in the transport of bile. May have a role in monitoring the intrahepatic bile acid concentration. Has a low bile-binding ability. May play a role in myelin formation. [UniProt]
Calculated Mw	37 kDa

Images



ARG56997 anti-AKR1C1 antibody [6D10] FACS image

Flow Cytometry: A431 cell line stained with ARG56997 anti-AKR1C1 antibody [6D10] at 2-5 μ g for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG56997 anti-AKR1C1 antibody [6D10] WB image

Western blot: 1) 50 ng of Recombinant Human AKR1C1, 2) 40 μ g of HepG2 cell lysate, and 3) 40 μ g of Raji cell lysate stained with ARG56997 anti-AKR1C1 antibody [6D10] at 1:1000.