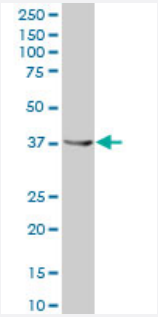
AKR1C1 polyclonal antibody (A01)

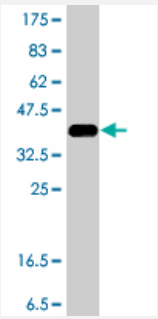
Catalog # H00001645-A01 Size 50 uL

Applications



Western Blot (Cell lysate)

AKR1C1 polyclonal antibody (A01), Lot # 070510JCS1 Western Blot analysis of AKR1C1 expression in HeLa (Cat # L013V1).



Western Blot detection against Immunogen (38.21 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant AKR1C1.
Immunogen	AKR1C1 (AAH20216, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag.
Sequence	MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPKSKALEATKLAIEAGFRHIDSAHLYNNEEQVGLAIR SKIADGSVKREDIFYTSKLWCNSHRPELVRPALERSLKNLQLDY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (70); Rat (71)

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Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (38.21 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  AKR1C1 polyclonal antibody (A01), Lot # 070510JCS1 Western Blot analysis of AKR1C1 expression in HeLa (Cat # L013V1).

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — AKR1C1

Entrez GeneID	1645
GeneBank Accession#	BC020216
Protein Accession#	AAH20216
Gene Name	AKR1C1
Gene Alias	2-ALPHA-HSD, 20-ALPHA-HSD, C9, DD1, DDH, DDH1, H-37, HAKRC, MBAB, MGC8954
Gene Description	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
Omim ID	600449
Gene Ontology	Hyperlink

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Gene Summary	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
Other Designations	20 alpha-hydroxysteroid dehydrogenase|OTTHUMP00000018992|aldo-keto reductase C|aldo-keto reductase family 1, member C1|chlordecone reductase homolog|dihydrodiol dehydrogenase 1|dihydrodiol dehydrogenase isoform DD1|hepatic dihydrodiol dehydrogenase|trans-

Publication Reference

- Resistance to gefitinib and cross-resistance to irreversible EGFR-TKIs mediated by disruption of the Keap1-Nrf2 pathway in human lung cancer cells.

  Park SH, Kim JH, Ko E, Kim JY, Park MJ, Kim MJ, Seo H, Li S, Lee JY.

  FASEB Journal 2018 May; [Epub].

  Application: WB-Ce, WB-Tr, Human, HCC827 cells

- Cisplatin resistance in human cervical, ovarian and lung cancer cells.

  Chen J, Solomides C, Parekh H, Simpkins F, Simpkins H.

  Cancer Chemotherapy and Pharmacology 2015 Jun; 75(6):1217.

  Application: WB-Ce, Human, ME180, ME180R, SKOV3, A549, CpV, CpR, 8n9, CT4, ApSR, A8n3 cells

- Molecular effectors and modulators of hypericin-mediated cell death in bladder cancer cells.

  Buytaert E, Matroule JY, Durinck S, Close P, Kocanova S, Vandenheede JR, de Witte PA, Piette J, Agostinis P.

  Oncogene 2007 Oct; 27(13):1916.

  Application: WB, Human, T24, RT4 cells

Pathway

- Metabolism of xenobiotics by cytochrome P450

Disease

- Alzheimer Disease
- Breast Neoplasms

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- Genetic Predisposition to Disease
- Lung Neoplasms
- Lymphoma

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