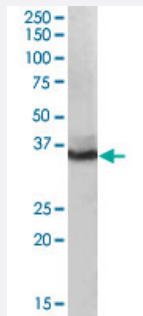


AKR1C4 polyclonal antibody

Catalog # PAB7023

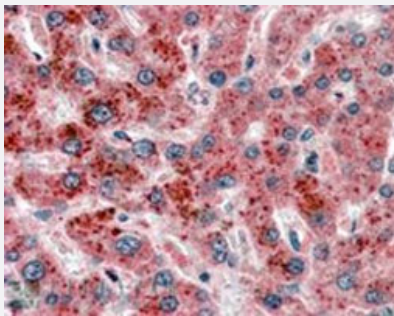
Size 100 ug

Applications



Western Blot (Tissue lysate)

AKR1C4 polyclonal antibody (Cat # PAB7023) (0.1 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

AKR1C4 polyclonal antibody (Cat # PAB7023, 2.5 ug/mL) staining of paraffin embedded human liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of AKR1C4.
Immunogen	A synthetic peptide corresponding to human AKR1C4.
Sequence	DPKYQRVELNDGH-C
Host	Goat
Theoretical MW (kDa)	37.1
Reactivity	Human
Specificity	This antibody may cross-react with AKR1C1.

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:4000) Western blot (0.1-0.3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — AKR1C4

Entrez GeneID	1109
Protein Accession#	NP_001809.2
Gene Name	AKR1C4
Gene Alias	3-alpha-HSD, C11, CDR, CHDR, DD4, HAKRA, MGC22581
Gene Description	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)

Omim ID [600451](#)

Gene Ontology [Hyperlink](#)

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 bioreduction of chlordane, a toxic organochlorine pesticide, to chlordane alcohol in liver. 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

3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrogenase 4[OTTHUMP00000018997]aldo-keto reductase family 1, member C4[chlordane reductase[dihydrodiol dehydrogenase 4[dihydrodiol dehydrogenase isozyme DD4]type I 3-alpha-hydroxysteroid dehydrogenase

Publication Reference

- [Polymorphisms in genes involved in estrogen and progesterone metabolism and mammographic density changes in women randomized to postmenopausal hormone therapy: results from a pilot study.](#)

Lord SJ, Mack WJ, Van Den Berg D, Pike MC, Ingles SA, Haiman CA, Wang W, Parisky YR, Hodis HN, Ursin G.

Breast Cancer Research 2005 Feb; 7(3):R336.

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)