

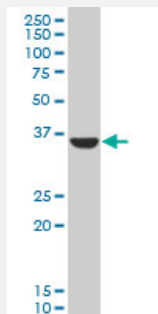
MaxPab®

AKR1C3 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00008644-B01P

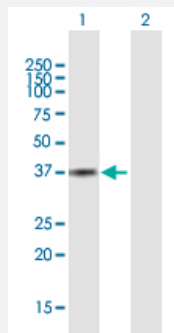
Size 50 ug

Applications



Western Blot (Tissue lysate)

AKR1C3 MaxPab polyclonal antibody. Western Blot analysis of AKR1C3 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of AKR1C3 expression in transfected 293T cell line ([H00008644-T01](#)) by AKR1C3 MaxPab polyclonal antibody.

Lane 1: AKR1C3 transfected lysate(35.53 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human AKR1C3 protein.

Immunogen

AKR1C3 (-, 1 a.a. ~ 323 a.a) full-length human protein.

Sequence

MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTCLAIEAGFRHIDSAHLYNNEEQVGLAI
RSKIADGSGVKREDIFYTSKLWSTFHRPELVRLPAENSLKKAQLDYVDLYLIHSPMSLKPGEELSPT
DENGKIVFDIVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQLEMILNKPLKYKPVVCNQVECHPY
FNRSKLLDFCKSKDMLVAYSALGSQRDKRWVDPNSPVLLEDVPLCALAKKHKRTPALIALRYQL
QRGVVVLAKSYNEQRIRQNVQVFEEFQLTAEDMKAIDGLDRNLHYFNSDSFASHPNYPYSDEY

Host

Mouse

Reactivity	Human
Interspecies Antigen Sequence	Mouse (73); Rat (71)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

AKR1C3 MaxPab polyclonal antibody. Western Blot analysis of AKR1C3 expression in human liver.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AKR1C3 expression in transfected 293T cell line ([H00008644-T01](#)) by AKR1C3 MaxPab polyclonal antibody.

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — AKR1C3

Entrez GeneID	8644
GeneBank Accession#	BC001479
Protein Accession#	=
Gene Name	AKR1C3
Gene Alias	DD3, DDX, HA1753, HAKRB, HAKRe, HSD17B5, KIAA0119, hluPGFS
Gene Description	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)
Omim ID	603966
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 reduction of prostaglandin (PG) D₂, PGH₂ and phenanthrenequinone (PQ), and the oxidation of 9α,11β-PGF₂ to PGD₂. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. 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

OTTHUMP00000018996|aldo-keto reductase family 1, member C3|chlordecone reductase|dihydrodiol dehydrogenase 3|dihydrodiol dehydrogenase X|hydroxysteroid (17-β) dehydrogenase 5|prostaglandin F synthase|trans-1,2-dihydrobenzene-1,2-diol dehydrogenase|type

Publication Reference

- [Proteasome inhibitors MG-132 and bortezomib induce AKR1C1; AKR1C3; AKR1B1; and AKR1B10 in human colon cancer cell lines SW-480 and HT-29.](#)

Ebert B, Kisiela M, Wsol V, Maser E.

Chemico-biological Interactions 2011 May; 191(1-3):239.

Application: WB, Human, Caco-2, HT-29, HCT116, SW-480, A-549, PANC-1, A431, HepG2 cells

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Ductus Arteriosus](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hyperandrogenism](#)

- [Infant](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)