

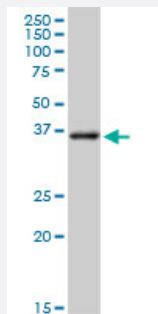
MaxPab®

AKR1C3 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00008644-D01P

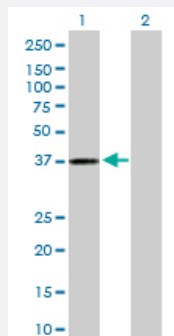
Size 100 ug

Applications



Western Blot (Tissue lysate)

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



Western Blot (Transfected lysate)

Western Blot analysis of AKR1C3 expression in transfected 293T cell line ([H00008644-T03](#)) by AKR1C3 MaxPab polyclonal antibody.

Lane 1: AKR1C3 transfected lysate(36.90 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

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

Immunogen

AKR1C3 (NP_003730.4, 1 a.a. ~ 323 a.a) full-length human protein.

Sequence

MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTCLAIEAGFRHIDSAHLYNNEEQVGLAI
RSKIADGSGVKREDIFYTSKLWSTFHRPELVRLPAENSLKKAQLDYVDLYLIHSPMSLKPGEELSPT
DENGKVIFDIVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQLEMILNKPLKYKPVNQNQVECHPY
FNRSKLLDFCKSKDMLVAYSALGSQRDKRWVDPNSPVLLEDVPLCALAKKHKRTPALIALRYQL
QRGVVVLAKSYNEQRIRQNVQVFEEFQLTAEDMKAIDGLDRNLHYFNSDSFASHPNYPYSDEY

Host

Rabbit

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 rabbit polyclonal antibody. Western Blot analysis of AKR1C3 expression in human colon.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AKR1C3 expression in transfected 293T cell line ([H00008644-T03](#)) by AKR1C3 MaxPab polyclonal antibody.

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[Protocol Download](#)

Gene Info — AKR1C3

Entrez GeneID	8644
GeneBank Accession#	NM_003739.4
Protein Accession#	NP_003730.4
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 9alpha,11beta-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-beta) dehydrogenase 5|prostaglandin F synthase|trans-1,2-dihydrobenzene-1,2-diol dehydrogenase|type

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

- [Interindividual Variability in the Cardiac Expression of Anthracycline Reductases in Donors With and Without Down Syndrome.](#)

Quinones-Lombrana A, Ferguson D, Hageman Blair R, Kalabus JL, Redzematovic A, Blanco JG.

Pharmaceutical Research 2014 Jul; 31(7):1644.

Application: WB, Human, Heart

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](#)