Recombinant Human AKR1C3 cell lysate

Cat. No. AKR1C3-49HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	AKR1C3 aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II) [Homo sapiens]

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Official Symbol	AKR1C3
Synonyms	AKR1C3; aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II); HSD17B5, hydroxysteroid (17 beta) dehydrogenase 5; aldo-keto reductase family 1 member C3; DDX; dihydrodiol dehydrogenase X; HAKRB; KIAA0119; PGFS; prostaglandin F synthase; indanol dehydrogenase; 3-alpha-HSD type II, brain; dihydrodiol dehydrogenase 3; chlordecone reductase homolog HAKRb; testosterone 17-beta-dehydrogenase 5; type IIb 3-alpha hydroxysteroid dehydrogenase; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; DD3; HAKRe; HA1753; HSD17B5; hluPGFS;
Gene ID	8644
mRNA Refseq	NM_001253909
Protein Refseq	NP_001240838
MIM	603966
UniProt ID	P42330
Chromosome Location	10p15-p14
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem; Steroid hormone biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, conserved biosystem; androgen biosynthesis, organism-specific biosystem;

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Function	15-hydroxyprostaglandin-D dehydrogenase (NADP+) activity; alditol:NADP+ 1-oxidoreductase activity; aldo-keto reductase (NADP) activity; androsterone dehydrogenase (A-specific) activity; androsterone dehydrogenase activity; delta4-3-oxosteroid 5beta-reductase activity; dihydrotestosterone 17-beta-dehydrogenase activity; geranylgeranyl reductase activity; indanol dehydrogenase activity; ketoreductase activity; ketosteroid monooxygenase activity; oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor; phenanthrene 9,10-monooxygenase activity; prostaglandin F receptor activity; prostaglandin-F synthase activity; retinal dehydrogenase activity; retinol dehydrogenase activity; testosterone 17-beta-dehydrogenase (NAD+) activity; testosterone 17-beta-dehydrogenase (NADP+) activity; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase activity;

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