

DD2 Polyclonal Antibody

Catalog No: YT1305

Reactivity: Human

Applications: WB;IHC;IF;ELISA

Target: DD2

Fields: >>Steroid hormone biosynthesis;>>Chemical carcinogenesis - DNA

adducts;>>Chemical carcinogenesis - reactive oxygen species

Gene Name: AKR1C2

Protein Name: Aldo-keto reductase family 1 member C2

P52895

Human Gene Id: 1646

Human Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

AKR1C2. AA range:21-70

Specificity: DD2 Polyclonal Antibody detects endogenous levels of DD2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 37kD

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Cell Pathway: Steroid hormone biosynthesis; Metabolism of xenobiotics by cytochrome P450;

Background: 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 using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011],

Function : catalytic activity:Androsterone + NAD(P)(+) = 5-alpha-androstane-3,17-dione +

NAD(P)H.,catalytic activity:Trans-1,2-dihydrobenzene-1,2-diol + NADP(+) = catechol + NADPH.,enzyme regulation:Inhibited by hexestrol with an IC(50) of 2.8 uM, 1,10-phenanthroline with an IC(50) of 2100 uM, 1,7-phenanthroline with an IC(50) of 1500 uM, flufenamic acid with an IC(50) of 0.9 uM, indomethacin with an IC(50) of 75 uM, ibuprofen with an IC(50) of 6.9 uM, lithocholic acid with an IC(50) of 0.07 uM, ursodeoxycholic acid with an IC(50) of 0.08 uM and chenodeoxycholic acid with an IC(50) of 0.13 uM.,function:Works in concert with

the 5-alpha/5-beta-steroid reductases to convert steroid hormones into the 3-alpha/5-alpha and 3-alpha/5-beta-tetrahydrosteroids. Catalyzes the inactivation

of the most potent androgen 5-alpha-dihydrotestosterone (5-alpha-DHT) to

5-alpha-androstane-3-alpha,17-beta-diol (3-alpha-

Subcellular Cytoplasm, cytosol .
Location :

Expression: Expressed in fetal testes. Expressed in fetal and adult adrenal glands.

Sort : 5042

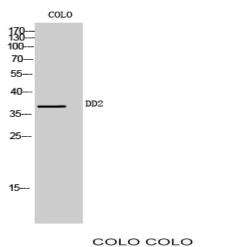
No4: 1

Host: Rabbit

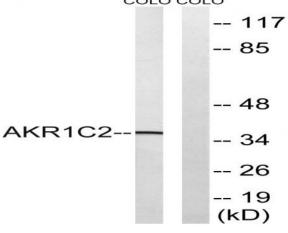
Modifications: Unmodified

Products Images

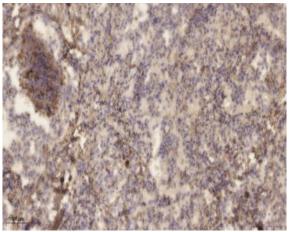
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Western Blot analysis of COLO cells using DD2 Polyclonal Antibody



Western blot analysis of lysates from COLO cells, using AKR1C2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human lung cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).