

产品名称: DD2 Rabbit Polyclonal Antibody

产品货号: APRab09857

产品概述 (Summary)

描述(Description)	Rabbit polyclonal Antibody
宿主(Host)	Rabbit
应用(Application)	WB,IHC,ICC/IF,ELISA
种属反应(Reactivity)	Human,Rat,Mouse
偶联物(Conjugation)	Unconjugated
修饰(Modification)	Unmodified
同种型(Isotype)	IgG
克隆(Clonality)	Polyclonal
剂型(Form)	Liquid
保存条件(Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液(Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化 (Purification)	Affinity purification

产品应用(Application)

稀释比(Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
分子量(Molecular Weight)	37kDa

抗原信息(Antigen Information)

基因名(Gene Name)	AKR1C2
别名(Alternative Names)	AKR1C2; DDH2; Aldo-keto reductase family 1 member C2; 3-alpha-HSD3; Chlordecone reductase homolog HAKRD; Dihydrodiol dehydrogenase 2; DD-2; DD2; Dihydrodiol dehydrogenase/bile acid-binding protein; DD/BABP; Trans-1; 2-dihydrobenzene-1,2-diol
基因 ID(Gene ID)	1646.0
SwissProt ID	P52895
免疫原(Immunogen)	The antiserum was produced against synthesized peptide derived from human AKR1C2. AA range:21-70

研究背景 (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- α -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], catalytic activity: Androsterone + NAD(P)(+) = 5- α -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 μ M, 1,10-phenanthroline with an IC(50) of 2100 μ M, 1,7-phenanthroline with an IC(50) of 1500 μ M, flufenamic acid with an IC(50) of 0.9 μ M, indomethacin with an IC(50) of 75 μ M, ibuprofen with an IC(50) of 6.9 μ M, lithocholic acid with an IC(50) of 0.07 μ M, ursodeoxycholic acid with an IC(50) of 0.08 μ M and chenodeoxycholic acid with an IC(50) of 0.13 μ M, function: Works in concert with the 5- α /5- β -steroid reductases to convert steroid hormones into the 3- α /5- α and 3- α /5- β -tetrahydrosteroids. Catalyzes the inactivation of the most potent androgen 5- α -dihydrotestosterone (5- α -DHT) to 5- α -androstane-3- α ,17- β -diol (3- α -diol). Has a high bile-binding ability, similarity: Belongs to the aldo/keto reductase family,

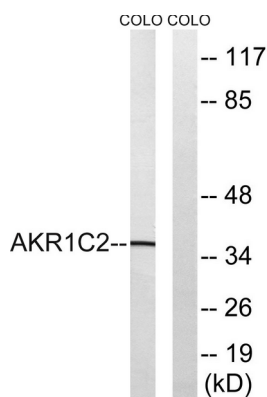
研究领域 (Research Area)

Steroid hormone biosynthesis; Metabolism of xenobiotics by cytochrome P450;

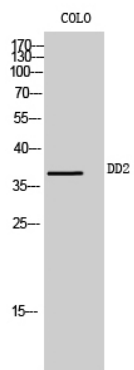
注意事项 (Note)

For research use only.

图片 (Image Data)



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



Western Blot analysis of COLO cells using DD2 Polyclonal Antibody

EnkiLife 优势产品推荐

产品类别	产品货号	产品名称
WB 解决方案	RA10020	2h 极速 WB 即用型全流程试剂盒
	RA10021	4h 快速 WB 即用型全流程试剂盒
	RA10042	5h 畅享版 WB 全流程试剂盒
	RA10037	校准级彩色预染蛋白 Marker (8-180kDa)
	RA10038	校准级彩色预染蛋白 Marker (10-250kDa)
	RA10039	校准级高分子彩色预染蛋白 Marker (25-400kDa)
TSA 多重荧光染色试剂盒	RA10008	TSA 双标三色多重荧光染色试剂盒 (mIHC)
	RA10009	TSA 三标四色多重荧光染色试剂盒 (mIHC)
	RA10010	TSA 四标五色多重荧光染色试剂盒 (mIHC)
	RA10011	TSA 五标六色多重荧光染色试剂盒 (mIHC)
	RA10012	TSA 六标七色多重荧光染色试剂盒 (mIHC)
IHC 检测试剂盒	RA10006	HRP Anti-Mouse/Rabbit IHC Detection System
	RA10007	Polymer-HRP Anti-Mouse/Rabbit IHC Detection System
抗体标记试剂盒	RE80004p	辣根过氧化物酶(HRP)抗体标记试剂盒
	RE80002q	Sulfo-NHS-生物素标记试剂盒
	RE80007p	Cy3 荧光素标记试剂盒
	RE80011p	Fluor488 荧光素标记试剂盒
	RE80017p	Fluor750 荧光素标记试剂盒
	RE80005p	藻红蛋白(R-PE) 抗体快速标记试剂盒
	RE80040	PE-Cy7 串联染料抗体快速标记试剂盒
稳转细胞系构建服务 (免费赠送全膜 WB 验证)	TS-0001	过表达稳转细胞系构建
	TS-0002	敲低稳转细胞系构建
	TS-0003	敲除细胞系构建

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