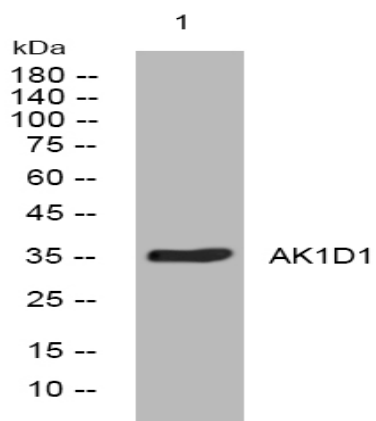


AK1D1 rabbit pAb

Catalog No :	YT6514
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	AK1D1
Fields :	>>Primary bile acid biosynthesis;>>Steroid hormone biosynthesis;>>Metabolic pathways
Gene Name :	AKR1D1 SRD5B1
Protein Name :	AK1D1
Human Gene Id :	6718
Human Swiss Prot No :	P51857
Mouse Gene Id :	208665
Mouse Swiss Prot No :	Q8VCX1
Rat Gene Id :	192242
Rat Swiss Prot No :	P31210
Immunogen :	Synthesized peptide derived from human AK1D1 AA range: 258-308
Specificity :	This antibody detects endogenous levels of AK1D1 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000

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)
Molecularweight :	36kD
Background :	The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. Three transcript variants encoding different isoforms have been found for this gene. Other variants may be present, but their full-length natures have not been determined yet. [provided by RefSeq, Jul 2010],
Function :	catalytic activity:17,21-dihydroxy-5-beta-pregnane-3,11,20-trione + NADP(+) = cortisone.,catalytic activity:5-beta-cholestan-3-one + NADP(+) = cholest-4-en-3-one + NADPH.,disease:Defects in AKR1D1 are the cause of congenital bile acid synthesis defect type 2 (CBAS2) [MIM:235555]; also known as cholestasis with delta(4)-3-oxosteroid 5-beta-reductase deficiency. Patients with this liver disease show absence or low levels of chenodeoxycholic acid and cholic acid in plasma and urine.,enzyme regulation:Subject to inhibition by high substrate concentrations. Inhibited by testosterone concentrations above 10 uM.,function:Efficiently catalyzes the reduction of progesterone, androstenedione, 17-alpha-hydroxyprogesterone and testosterone to 5-beta-reduced metabolites. The bile acid intermediates 7-alpha,12-alpha-dihydroxy-4-cholesten-3-one and 7-alpha-hydroxy-4-cholesten-3-one can also act as subs
Subcellular Location :	Cytoplasm .
Expression :	Highly expressed in liver. Expressed in testis and weakly in colon.

Products Images



Western blot analysis of lysates from A549 cells, primary antibody was diluted at 1:1000, 4° over night