



AK1D1 mouse mAb

Catalog No	YP-mAb-11149
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	AKR1D1 SRD5B1
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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AK1D1;AKR1D1 SRD5B1
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm .
Tissue Specificity	Highly expressed in liver. Expressed in testis and weakly in colon.
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



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],

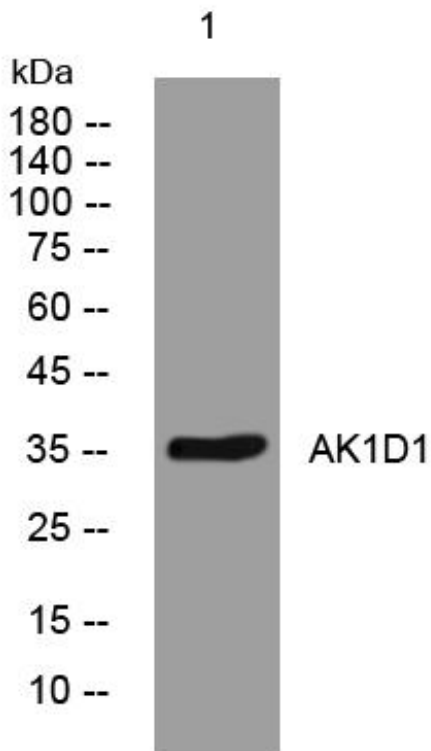
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using AK1D1 mouse mAb