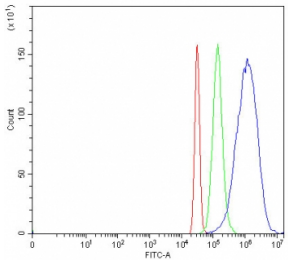
AKR1D1 Antibody / Aldo-keto reductase family 1 member D1 (RQ4911)

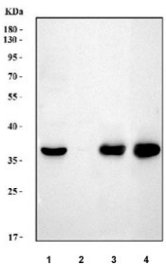
Catalog No.	Formulation	Size
RQ4911	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P51857
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This AKR1D1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with AKR1D1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AKR1D1 antibody.



Western blot testing of 1) human HepG2, 2) human Caco-2, 3) rat liver and 4) mouse liver tissue lysate with AKR1D1 antibody at 0.5ug/ml. Predicted molecular weight ~37 kDa.

Description

Human delta(4)-3-oxosteroid 5-beta-reductase (steroid 5-beta-reductase) catalyzes 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. This gene is mapped to 7q33. 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.

Application Notes

Optimal dilution of the AKR1D1 antibody should be determined by the researcher.

Immunogen

Amino acids EEMKDIEALNKNVRFVELLMWRDHPEYPFHDEY from the human protein were used as the immunogen for the AKR1D1 antibody.

Storage

After reconstitution, the AKR1D1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.