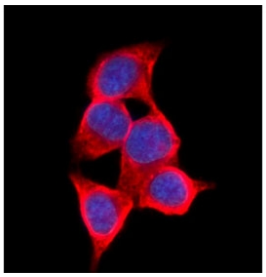
AKR1C1/2 Antibody (R32504)

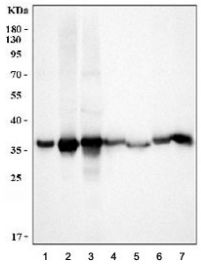
Catalog No.	Formulation	Size
R32504	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

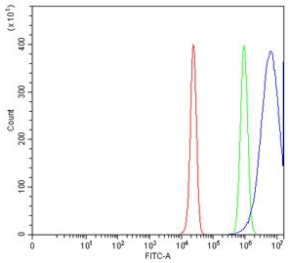
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q04828, P52895
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This AKR1C1/2 antibody is available for research use only.



Immunofluorescent staining of FFPE human HepG2 cells with AKR1C1/2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HepG2, 2) human A549, 3) human HCCP, 4) rat liver, 5) rat kidney, 6) mouse liver and 7) mouse kidney lysate with AKR1C1/2 antibody. Predicted molecular weight ~37 kDa (AKR1C1) and ~37 kDa (AKR1C2).



Flow cytometry testing of human HepG2 cells with AKR1C1/2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AKR1C1/2 antibody.

Description

AKR1C1 and AKR1C2 are members 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. AKR1C1 binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. The AKR1C1 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the AKR1C1/2 antibody to be titrated for optimal performance.

Immunogen

Amino acids M1-K123 from human AKR1C1 were used as the immunogen for the AKR1C1/2 antibody.

Storage

After reconstitution, the AKR1C1/2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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