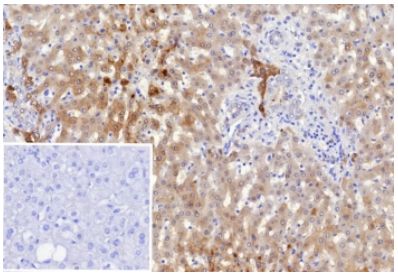
Dihydrodiol dehydrogenase 1 Antibody / DDH1 / AKR1C1 [clone AKR1C1/9318] (V5685)

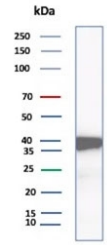
Catalog No.	Formulation	Size
V5685-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5685-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5685SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

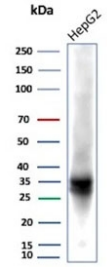
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	AKR1C1/9318
Purity	Protein G affinity
UniProt	Q04828
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Dihydrodiol dehydrogenase 1 antibody is available for research use only.



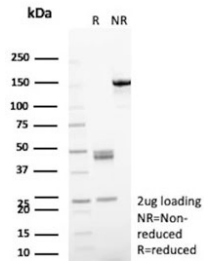
IHC staining of FFPE human hepatocellular carcinoma tissue with Dihydrodiol dehydrogenase 1 antibody (clone AKR1C1/9318). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human A549 cell lysate with Dihydrodiol dehydrogenase 1 antibody (clone AKR1C1/9318). Predicted molecular weight ~37 kDa.



Western blot testing of human HepG2 cell lysate with Dihydrodiol dehydrogenase 1 antibody (clone AKR1C1/9318). Predicted molecular weight ~37 kDa.



SDS-PAGE analysis of purified, BSA-free Dihydrodiol dehydrogenase 1 antibody (clone AKR1C1/9318) as confirmation of integrity and purity.

Description

DDH1 / AKR1C1 is 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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone.

Application Notes

Optimal dilution of the Dihydrodiol dehydrogenase 1 antibody should be determined by the researcher.

Immunogen

A recombinant human full-length AKR1C1 protein was used as the immunogen for the Dihydrodiol dehydrogenase 1 antibody.

Storage

Aliquot the Dihydrodiol dehydrogenase 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.