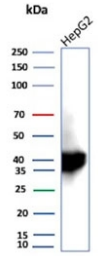
ARK1C1 Antibody / Aldo-keto Reductase Family 1 Member C1 [clone AKR1C1/9319] (V5588)

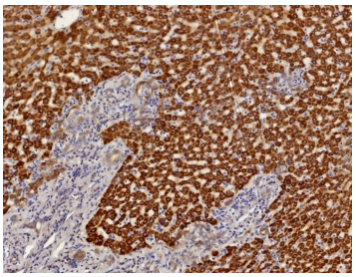
Catalog No.	Formulation	Size
V5588-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5588-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5588SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

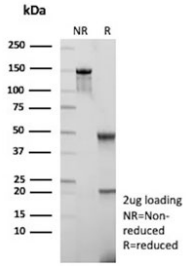
Availability	1-3 business days
Species Reactivity	Human, Hamster, Guinea pig
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AKR1C1/9319
Purity	Protein A/G affinity
UniProt	Q04828
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml (Human) Western blot: 2-4ug/ml (Human/Hamster/Guinea pig)
Limitations	This ARK1C1 antibody is available for research use only.



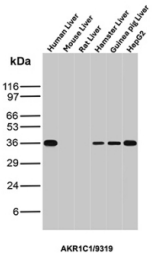
Western blot testing of human HepG2 cell lysate using AKR1C1 antibody (clone AKR1C1/9319). Predicted molecular weight ~37 kDa.



IHC staining of FFPE human hepatocellular carcinoma tissue with AKR1C1 antibody (clone AKR1C1/9319). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free AKR1C1 antibody (clone AKR1C1/9319) as confirmation of integrity and purity.



AKR1C1 Antibody Differential Species Reactivity Liver WB. Western blot analysis of (1) human liver, (2) mouse liver, (3) rat liver, (4) hamster liver, (5) guinea pig liver, and (6) HepG2 cell lysates using AKR1C1 Antibody (clone AKR1C1/9319) detects a band at approximately 37 kDa in human, hamster, guinea pig, and HepG2 samples, consistent with the predicted molecular weight of AKR1C1 / Aldo-keto reductase family 1 member C1. Signal is reduced or absent in mouse and rat samples, indicating species-dependent reactivity. This pattern supports selective detection of AKR1C1 and highlights differences in cross-species recognition for this clone.

Description

DDH / 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.

This antibody can be compared with our AKR1C1 Antibody (clone AKR1C1/9063) for consistent detection of AKR1C1 across steroid metabolism and detoxification studies.

Application Notes

Optimal dilution of the ARK1C1 antibody should be determined by the researcher.

Immunogen

Recombinant human full-length AKR1C1 protein was used as the immunogen for the ARK1C1 antibody.

Storage

Aliquot the ARK1C1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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