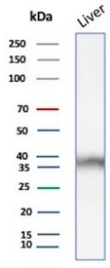
# ARK1C1 Antibody / Aldo-keto Reductase Family 1 Member C1 [clone AKR1C1/9063] (V5582)

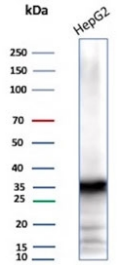
| Catalog No. | Formulation | Size |
|---|---|---|
| V5582-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5582-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5582SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

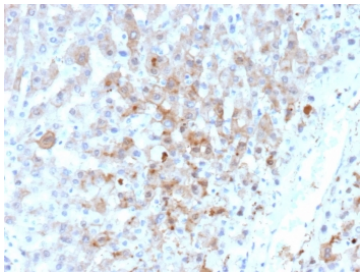
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | AKR1C1/9063 |
| **Purity** | Protein A/G affinity |
| **UniProt** | Q04828 |
| **Localization** | Cytoplasm |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml<br>Western Blot : 2-4ug/ml |
| **Limitations** | This ARK1C1 antibody is available for research use only. |



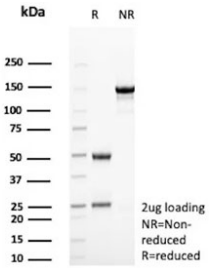

Western blot testing of human liver tissue lysate using AKR1C1 antibody (clone AKR1C1/9063). Predicted molecular weight ~37 kDa.




Western blot testing of human HepG2 cell lysate using AKR1C1 antibody (clone AKR1C1/9063). Predicted molecular weight ~37 kDa.



IHC staining of FFPE human hepatocellular carcinoma with ARK1C1 antibody (clone AKR1C1/9063). 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 ARK1C1 antibody (clone AKR1C1/9063) as confirmation of integrity and purity.

## 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.

## 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.