

Uniprot ID: [Q04828](#)

AKR1C1-1

Protein name: AK1C1_HUMAN

Full name: Aldo-keto reductase family 1 member C1

Protein existence: evidence at protein level

Function: Converts progesterone to its inactive form, 20-alpha-dihydroxyprogesterone (20-alpha-OHP). In the liver and intestine, may have a role in the transport of bile. May have a role in monitoring the intrahepatic bile acid concentration. Has a low bile-binding ability. May play a role in myelin formation.

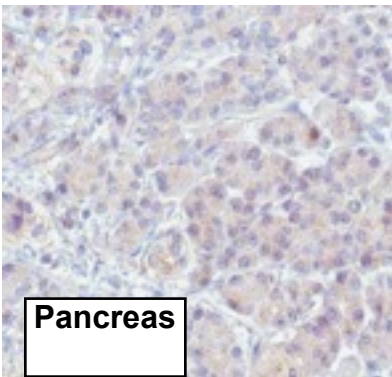
Subcellular location: Cytoplasm.

Tissue specificity: Expressed in all tissues tested including liver, prostate, testis, adrenal gland, brain, uterus, mammary gland and keratinocytes. Highest levels found in liver, mammary gland and brain.

Two antibodies: AKR1C1-1 and AKR1C1-2. Both were approved for IHC AKR1C1-2 was selected for full protein profiling.

AKR1C1-1 (CAB047302)

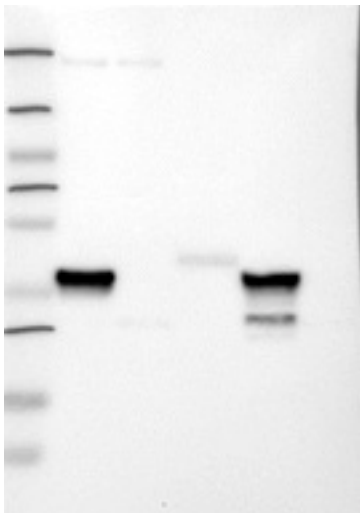
OK



Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:1200

IHC test staining: Strong staining in some tissues, including liver, both normal and cancer, intestine and kidney..



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 37, 37, 23, 28

WB Validation: Supportive (Band of predicted size in kDa (+/-20%) with additional bands present)