# AKR1B1 monoclonal antibody

Catalog: MB0032 Host: Mouse Reactivity: Human

## BackGround:

Aldose reductase (also designated AKR1B1, ALDR1, ALR2 or AR) is member of the monomeric NADPH-dependent aldoketoreductase family. Aldose reductase, which has a molecular mass of 36 kDa, catalyzes the reduction of various aldehydes and has been implicated in the development of diabetic complications by catalyzing the reduction of the aldehyde form of glucose, to the corresponding sugar alcohol, sorbitol. This pathway plays a minor role in glucose metabolism in most tissues, however in diabetic hyperglycemia, cells undergoing insulin-independent uptake of glucose accumulate significant quantities of sorbitol. The resulting hyperosmotic stress to cells may be a cause of diabetic complications such as neuropathy, retinopathy, and cataracts. Aldose reductase is very similar to human aldehyde reductase, bovine prostaglandin F synthase and to the European common frog protein, rho-crystallin.

## Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

## Molecular Weight:

Predicted band size:36KDa

Observed band size:36KDa

## Swiss-Prot:

P15121

## Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

## Applications:

WB: 1:1000

ICC: 1:50~200

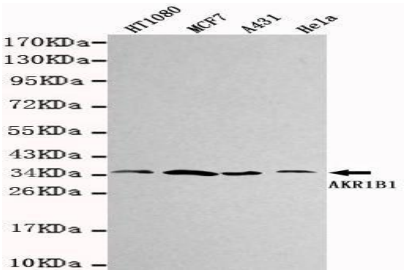
## Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

## Specificity:

This antibody detects endogenous levels of AKR1B1 and does not cross-react with related proteins.

## DATA:




Western blot detection of AKR1B1 in HT1080, MCF7, A431&Hela cell lysates using AKR1B1 antibody (1:1000 diluted).

## Note:

For research use only, not for use in diagnostic procedure.

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