

## AKR1B1 (K275) polyclonal antibody

Catalog: BS3067

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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.

### Product:

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

### Molecular Weight:

~ 36 kDa

### Swiss-Prot:

P15121

### Purification&Purity:

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

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

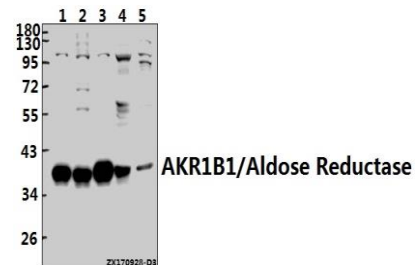
### Storage&Stability:

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

### Specificity:

AKR1B1 (K275) polyclonal antibody detects endogenous levels of AKR1B1 protein.

### DATA:



Western blot (WB) analysis of AKR1B1/Aldose Reductase (K275) pAb at 1:1000 dilution

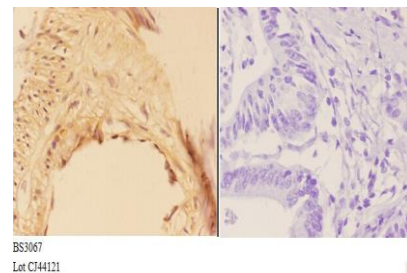
Lane1:A549 whole cell lysate(10ug)

Lane2:HEK293T whole cell lysate(10ug)

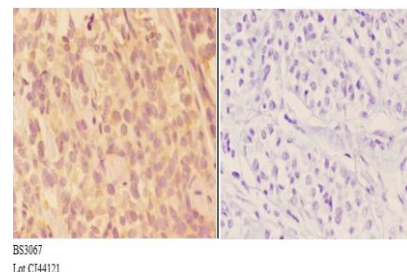
Lane3:Hela whole cell lysate(10ug)

Lane4:The Embryo tissue lysate of Mouse(40ug)

Lane5:The Kidney tissue lysate of Rat(40ug)



Immunohistochemistry (IHC) analyzes of AKR1B1 (K275) pAb in paraffin-embedded human colon carcinoma tissue at 1:50, showing brown-stained tissue. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of AKR1B1 (K275) pAb in paraffin-embedded human liver carcinoma tissue at 1:50, showing brown-stained tissue. Negative control (the right) Using PBS instead of primary anti-

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

body, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

**Note:**

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

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