

## Sorbitol Dehydrogenase polyclonal antibody

Catalog: BS6735

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Sorbitol dehydrogenase (SORD; EC 1.1.1.14) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase (ALDR1; MIM 103880), makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications (summarized by Carr and Markham, 1995 [PubMed 8535074]). The first reaction of the pathway (also called the polyol pathway) is the reduction of glucose to sorbitol by ALDR1 with NADPH as the co-factor. SORD then oxidizes the sorbitol to fructose using NAD(+) cofactor.

### Product:

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

### Molecular Weight:

38KDa

### Swiss-Prot:

Q00796

### 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 - 1:2000 | IF/ICC, 1:50 - 1:200

### Storage&Stability:

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

### Category:

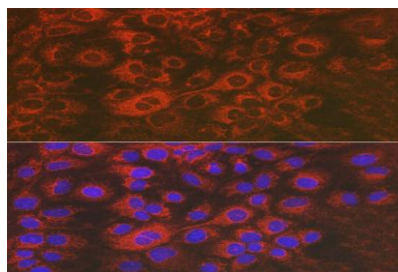
Polyclonal Antibodies

### DATA:

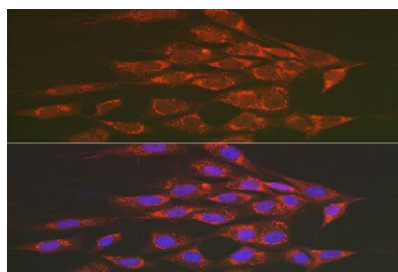
Western blot analysis of extracts of various cell lines, using Sorbitol Dehydrogenase antibody at 1:1000 dilution. Secondary anti-

body: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 60s.

Immunohistochemistry of paraffin-embedded human kidney using Sorbitol Dehydrogenase Rabbit pAb at dilution of 1:100. Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of Huh7 cells using Sorbitol Dehydrogenase Rabbit pAb at dilution of 1:50. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Sorbitol Dehydrogenase Rabbit pAb at dilution of 1:50. Blue: DAPI for nuclear staining.

### Note:

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

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