



# AKR1B1 mouse mAb

|                    |   |
|--------------------|---|
| Catalog No         | BYab-02365  |
| Isotype            | IgG   |
| Reactivity         | Human;Mouse;Rat   |
| Applications       | WB  |
| Gene Name          | akr1b1  |
| Protein Name       |   |
| Immunogen          | Purified recombinant human AKR1B1 protein fragments expressed in E.coli.  |
| Specificity        | This antibody detects endogenous levels of AKR1B1 and does not cross-react with related proteins.   |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| Source             | Monoclonal, Mouse   |
| Purification       | The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  |
| Dilution           | wb 1:1000   |
| Concentration      | 1 mg/ml   |
| Purity             | ≥90%  |
| Storage Stability  | -20°C/1 year  |
| Synonyms           | ADR; AKR1B 1;Akr1b1;Aldehyde reductase 1;Aldehyde reductase;Aldo keto reductase family 1, member B1;Aldo-keto reductase family 1 member B1;aldose reductase family 1, member B1 (aldose reductase);Aldose reductase;aldr 1;ALDR_HUMAN;ALDR1;ALR2;AR;Lii5 2 CTCL tumor antigen;Low Km aldose reductase;MGC1804.  |
| Observed Band      | 36kD  |
| Cell Pathway       | Cytoplasm.  |
| Tissue Specificity | Highly expressed in embryonic epithelial cells (EUE) in response to osmotic stress.   |
| Function           | catalytic activity:Alditol + NAD(P)(+) = aldose + NAD(P)H.,disease:In diabetes and galactosemia, increased AR activity leads to high levels of sorbitol and galactitol, respectively, in the cells of many tissues. Accumulation of sugar alcohols has been shown to cause osmotic cataracts in the lens. AR is also thought to play a key role in diabetic complications of three other target tissues, namely, nerve, kidney and retina.,enzyme regulation:Cys-299 may regulate the |

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kinetic and inhibition properties of the enzyme, but does not participate in catalysis.,function:Catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols with a broad range of catalytic efficiencies.,similarity:Belongs to the aldo/keto reductase family.,subunit:Monomer.,tissue specificity:Highly expressed in embryonic epithelial cells (EUE) in response to osmotic stress

#### Background

This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database. [provided by RefSeq, Feb 2009],

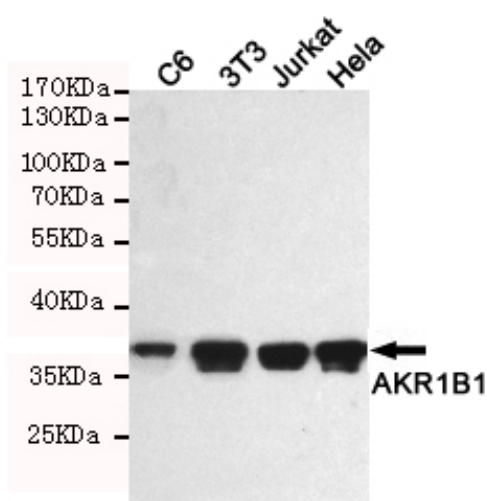
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western blot detection of AKR1B1 in C6,3T3,Jurkat and HeLa cell lysates using AKR1B1 mouse mAb (1:1000 diluted). Predicted band size:36KDa. Observed band size:36KDa.

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