

## Product datasheet for **TA323139S**

### AKR1B1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: A549 cell lysate IHC: 50-200 Positive control: Human colorectal cancer Predicted cell location: Cytoplasm and Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36 kDa
Gene Name:	aldo-keto reductase family 1, member B1 (aldose reductase)
Database Link:	<a href="#">NP_001619</a> <a href="#">Entrez Gene 24192 Rat</a> <a href="#">Entrez Gene 231 Human</a> <a href="#">P15121</a>



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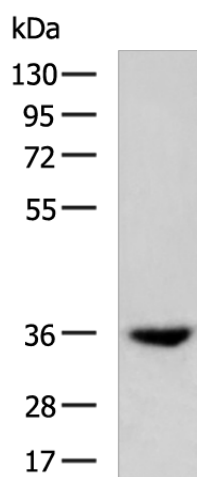
**Background:** This gene encodes a member of the aldo/keto reductase superfamily; which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes; including the aldehyde form of glucose; and is thereby implicated in the development of diabetic 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.

**Synonyms:** ADR; ALDR1; ALR2; AR

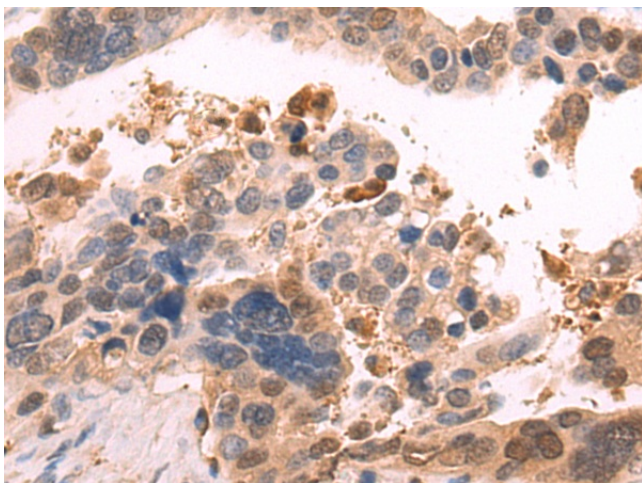
**Protein Families:** Druggable Genome

**Protein Pathways:** Fructose and mannose metabolism, Galactose metabolism, Glycerolipid metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Pyruvate metabolism

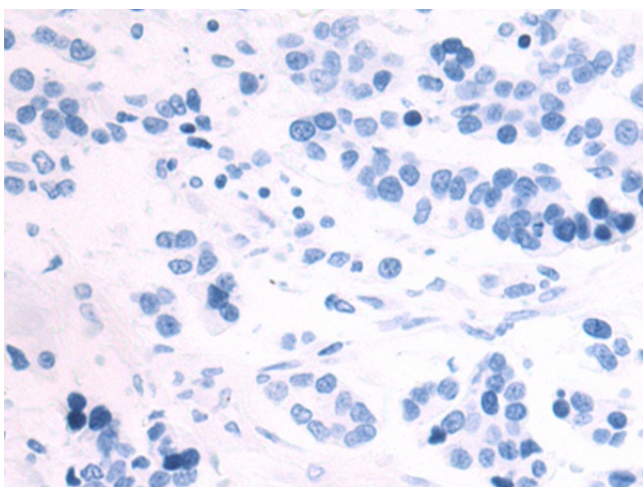
### Product images:



Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane: A549 cell lysate  
Primary antibody: [TA323139] (AKR1B1 Antibody) at dilution 1/700  
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution  
Exposure time: 7 seconds



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA323139] (AKR1B1 Antibody) at dilution 1/95 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA323139] (AKR1B1 Antibody) at dilution 1/95, treated with fusion protein. (Original magnification:  $\times 200$ )