

## Product datasheet for **TA323141**

### AKR1B1 Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 500-2000<br>WB positive control: Hela cells<br>IHC: 50-200<br>Positive control: Human ovarian cancer<br>Predicted cell location: Cytoplasm   |
| Reactivity:             | Human  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide corresponding to a region derived from 304-316 amino acids of human aldo-keto reductase family 1, member B1 (aldose reductase) |
| Formulation:            | PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol   |
| Concentration:          | lot specific   |
| 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><br><a href="#">Entrez Gene 231 Human</a><br><a href="#">P15121</a>   |



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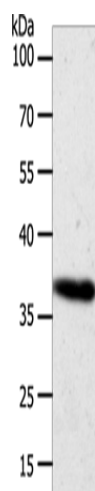
**Background:** This gene encodes a member of the aldo/keto reductase superfamily; which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes; including the aldehyde form of glucose; and is thereby implicated in the development of diabetic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

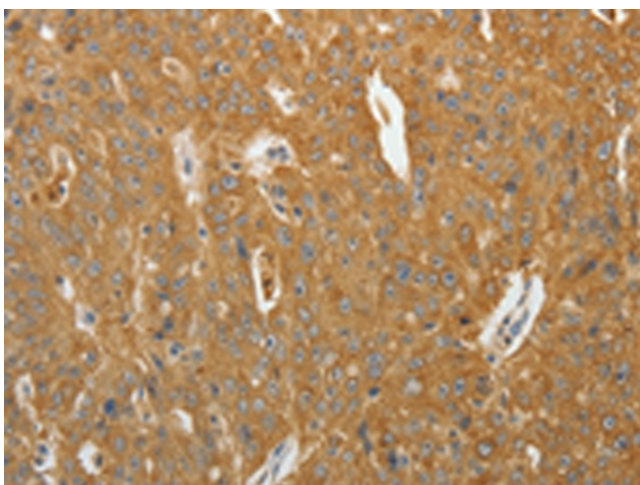
**Protein Families:** Druggable Genome

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

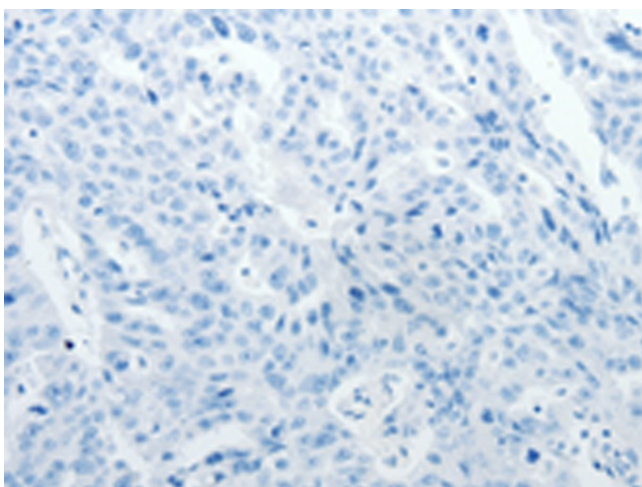
### Product images:



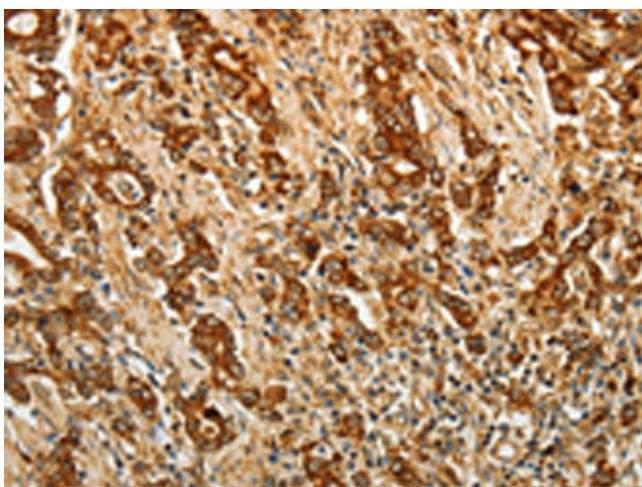
Gel: 10%SDS-PAGE  
Lysate: 27 µg  
Lane: HeLa cells  
Primary antibody: TA323141 (AKR1B1 Antibody) at dilution 1/700  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 4 seconds



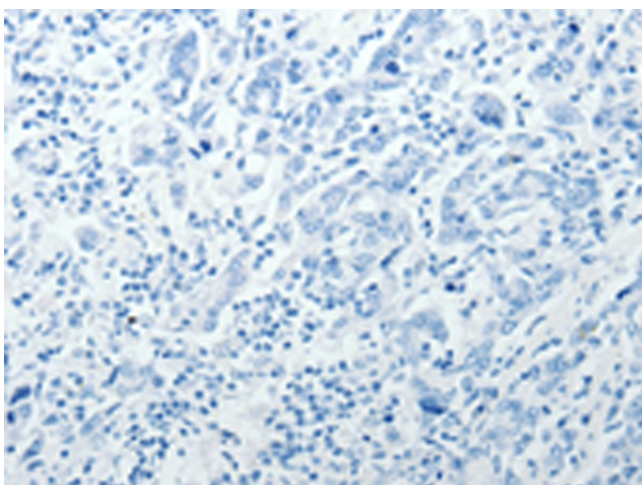
Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323141 (AKR1B1 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323141 (AKR1B1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323141 (AKR1B1 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323141 (AKR1B1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)