

## Product datasheet for **TA324137**

### AKR1A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human liver cancer tissue, hela cells and human fetal kidney tissue IHC: 25-100 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm, Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 312-324 amino acids of human aldo-keto reductase family 1, member A1 (aldehyde 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:	37 kDa
Gene Name:	aldo-keto reductase family 1, member A1 (aldehyde reductase)
Database Link:	<a href="#">NP_001189342</a> <a href="#">Entrez Gene 58810 Mouse</a> <a href="#">Entrez Gene 78959 Rat</a> <a href="#">Entrez Gene 10327 Human P14550</a>



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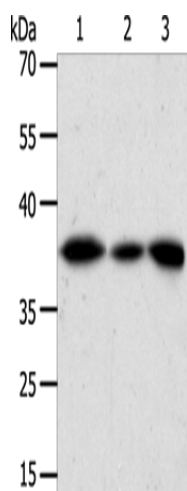
**Background:** This gene encodes a member of the aldo/keto reductase superfamily; which consists of more than 40 known enzymes and proteins. This member; also known as aldehyde reductase; is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Multiple alternatively spliced transcript variants of this gene exist; all encoding the same protein.

**Synonyms:** ALDR1; ALR; ARM; DD3; HEL-S-6

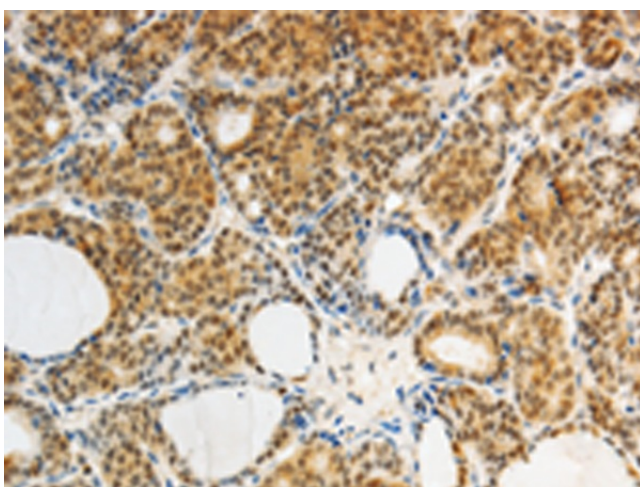
**Protein Families:** Druggable Genome

**Protein Pathways:** Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways

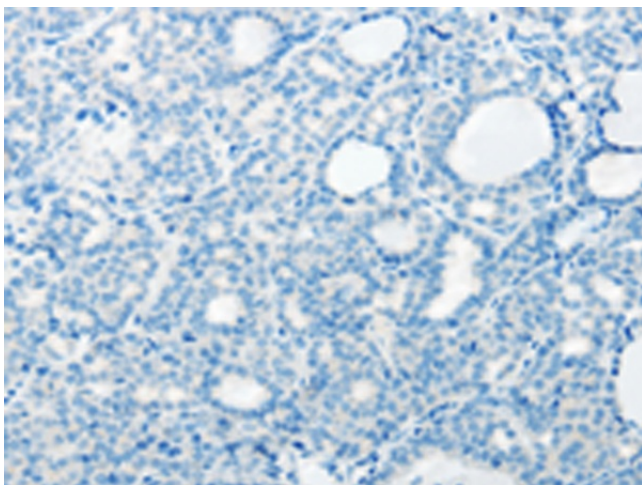
**Product images:**



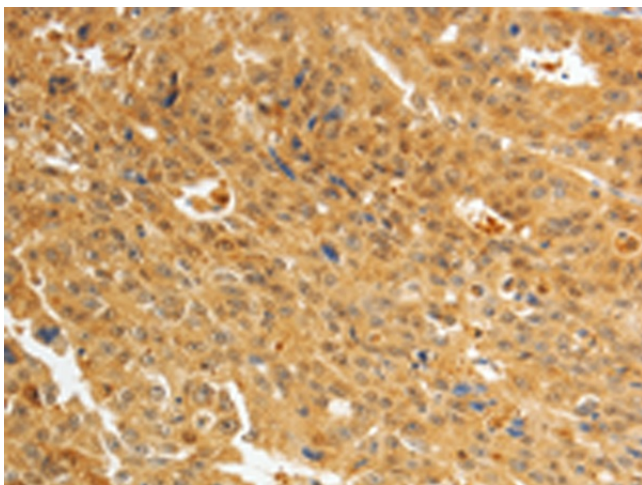
Gel: 10%SDS-PAGE  
Lysate: 27  $\mu$ g  
Lane 1-3: Human liver cancer tissue  
hela cells  
human fetal kidney tissue  
Primary antibody: TA324137 (AKR1A1 Antibody)  
at dilution 1/450  
Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution  
Exposure time: 10 seconds



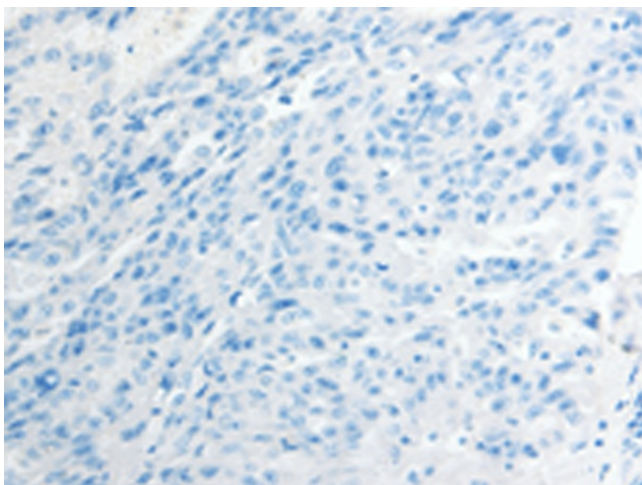
Immunohistochemistry of paraffin-embedded  
Human thyroid cancer tissue using TA324137  
(AKR1A1 Antibody) at dilution 1/25 (Original  
magnification:  $\times$ 200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA324137 (AKR1A1 Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA324137 (AKR1A1 Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA324137 (AKR1A1 Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification: ×200)