

## Product datasheet for **AP12362PU-N**

### **AKR1A1 (C-term) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	ELISA: 1/1,000. Western Blot: 1/50-1/100 Immunohistochemistry: 1/10-1/50.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	Ig
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human AKR1A1.
<b>Specificity:</b>	This antibody detects AKR1A1 (C-term). Predicted to cross react with Mouse (100% Antigen Homology).
<b>Formulation:</b>	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	aldo-keto reductase family 1, member A1 (aldehyde reductase)
<b>Database Link:</b>	<a href="#">Entrez Gene 10327 Human P14550</a>
<b>Background:</b>	AKR1A1 is 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.



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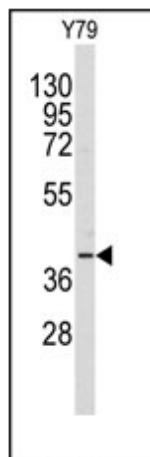
**Synonyms:** Aldehyde reductase, ALR

**Note:** **Molecular weight:** 36573 Da

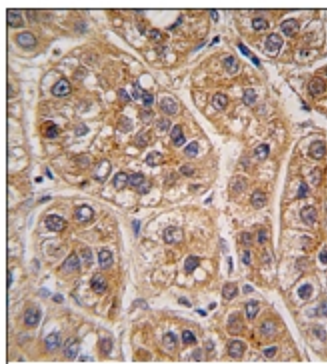
**Protein Families:** Druggable Genome

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

**Product images:**



Western blot analysis of anti-AKR1A1 Antibody (C-term) in Y79 cell line lysates (35ug/lane). AKR1A1 (arrow) was detected using the purified Pab (1:60dilution).



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with AKR1A1 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.