

**AKR1E2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18721b****Specification**

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**AKR1E2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O96JD6</a>
Other Accession	<a href="#">O4R802</a> , <a href="#">NP_001035267.1</a>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36589
Antigen Region	291-320

**AKR1E2 Antibody (C-term) - Additional Information****Gene ID** 83592**Other Names**

5-anhydro-D-fructose reductase, AF reductase, Aldo-keto reductase family 1 member C-like protein 2, Aldo-keto reductase family 1 member E2, LoopADR, Testis-specific protein, hTSP, AKR1E2, AKR1CL2, AKRDC1

**Target/Specificity**

This AKR1E2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291-320 amino acids from the C-terminal region of human AKR1E2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AKR1E2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**AKR1E2 Antibody (C-term) - Protein Information****Name** AKR1E2

**Synonyms** AKR1CL2, AKRDC1

**Function** Catalyzes the NADPH-dependent reduction of 1,5-anhydro-D- fructose (AF) to 1,5-anhydro-D-glucitol (By similarity). Has low NADPH- dependent reductase activity towards 9,10-phenanthrenequinone (in vitro) (PubMed:[12604216](#), PubMed:[15118078](#)).

**Cellular Location**

Cytoplasm.

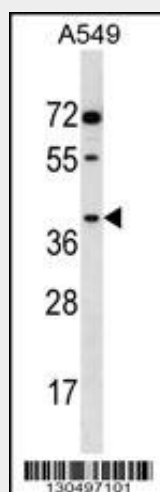
**Tissue Location**

Specifically expressed in testis (PubMed:12604216, PubMed:15118078). Expressed in testicular germ cells and testis interstitial cells (PubMed:15118078).

**AKR1E2 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**AKR1E2 Antibody (C-term) - Images**

AKR1E2 Antibody (C-term)(Cat. #AP18721b) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the AKR1E2 antibody detected the AKR1E2 protein (arrow).

**AKR1E2 Antibody (C-term) - Background**

AKR1E2 catalyzes the NADPH-dependent reduction of 1,5-anhydro-D-fructose (AF) to 1,5-anhydro-D-glucitol. Can also catalyze the reduction of various aldehydes and quinones (By similarity). Has low NADPH-dependent reductase activity towards 9,10-phenanthrenequinone (in vitro).

**AKR1E2 Antibody (C-term) - References**

Clancy, R.M., et al. Arthritis Rheum. 62(11):3415-3424(2010)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)  
Azuma, Y., et al. Mol. Hum. Reprod. 10(7):527-533(2004)  
Nishinaka, T., et al. Chem. Biol. Interact. 143-144, 299-305 (2003) :