

## Anti-AKR1CL2 Antibody

Rabbit polyclonal antibody to AKR1CL2 Catalog # AP60120

## Specification

# **Anti-AKR1CL2 Antibody - Product Information**

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB, IHC <u>Q96JD6</u> <u>O9DCT1</u> Human, Mouse, Rat, Monkey, Pig Rabbit Polyclonal 36589

#### Anti-AKR1CL2 Antibody - Additional Information

Gene ID 83592

**Other Names** AKR1CL2; AKRDC1; 1, 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

**Target/Specificity** Recognizes endogenous levels of AKR1CL2 protein.

Dilution WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200) IHC~~1:100~500

**Format** Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

# **Anti-AKR1CL2 Antibody - 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:<a href="http://www.uniprot.org/citations/12604216" target="\_blank">12604216</a>, PubMed:<a



href="http://www.uniprot.org/citations/15118078" target="\_blank">15118078</a>).

Cellular Location Cytoplasm.

**Tissue Location** 

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

## Anti-AKR1CL2 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Anti-AKR1CL2 Antibody - Images



Western blot analysis of AKR1CL2 expression in mouse muscle (A), rat kidney (B), rat testis (C) whole cell lysates.





Immunohistochemical analysis of AKR1CL2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

## Anti-AKR1CL2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human AKR1CL2. The exact sequence is proprietary.