

**Anti-DHRS4 Antibody**  
Rabbit polyclonal antibody to DHRS4  
Catalog # AP60665

## Specification

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### Anti-DHRS4 Antibody - Product Information

Application	WB, IH
Primary Accession	<a href="#">O9BTZ2</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29537

### Anti-DHRS4 Antibody - Additional Information

Gene ID 10901

#### Other Names

Dehydrogenase/reductase SDR family member 4; NADPH-dependent carbonyl reductase/NADP-retinol dehydrogenase; CR; PHCR; NADPH-dependent retinol dehydrogenase/reductase; NRDR; humNRDR; Peroxisomal short-chain alcohol dehydrogenase; PSCD; SCAD-SRL; Short-chain dehydrogenase/reductase family member 4

#### Target/Specificity

Recognizes endogenous levels of DHRS4 protein.

#### Dilution

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

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

#### 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-DHRS4 Antibody - Protein Information

Name DHRS4 ([HGNC:16985](#))

#### Function

NADPH-dependent oxidoreductase which catalyzes the reduction of a variety of compounds bearing carbonyl groups including ketosteroids, alpha-dicarbonyl compounds, aldehydes, aromatic ketones and quinones (PubMed:<a href="http://www.uniprot.org/citations/18571493" target="\_blank">18571493</a>, PubMed:<a href="http://www.uniprot.org/citations/19056333" target="\_blank">19056333</a>). Reduces 3-ketosteroids and benzil into 3beta-hydroxysteroids and R-benzoin, respectively, in contrast to the stereoselectivity of non-primate DHRS4s which

produce 3alpha-hydroxysteroids and S-benzoin (PubMed:<a href="http://www.uniprot.org/citations/19056333" target="\_blank">19056333</a>). Displays low activity toward all-trans-retinal and no activity toward 9-cis-retinal as compared to non-primate mammals (PubMed:<a href="http://www.uniprot.org/citations/18571493" target="\_blank">18571493</a>, PubMed:<a href="http://www.uniprot.org/citations/19056333" target="\_blank">19056333</a>). In the reverse reaction, catalyze the NAD-dependent oxidation of 3beta-hydroxysteroids and alcohol, but with much lower efficiency (PubMed:<a href="http://www.uniprot.org/citations/18571493" target="\_blank">18571493</a>, PubMed:<a href="http://www.uniprot.org/citations/19056333" target="\_blank">19056333</a>). Involved in the metabolism of 3beta-hydroxysteroids, isatin and xenobiotic carbonyl compounds (PubMed:<a href="http://www.uniprot.org/citations/18571493" target="\_blank">18571493</a>, PubMed:<a href="http://www.uniprot.org/citations/19056333" target="\_blank">19056333</a>).

#### Cellular Location

[Isoform 1]: Peroxisome Note=Isoform 4 is not peroxisomal.

#### Tissue Location

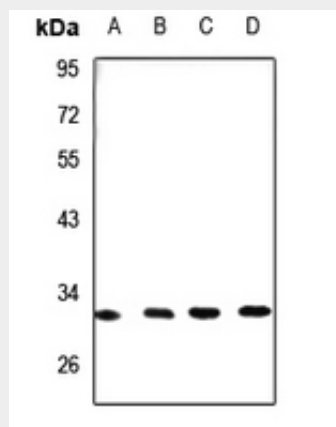
[Isoform 1]: Predominantly expressed in normal cervix (at protein level). [Isoform 5]: Expressed in a few neoplastic cervical tissues. [Isoform 8]: High expression in liver.

### Anti-DHRS4 Antibody - Protocols

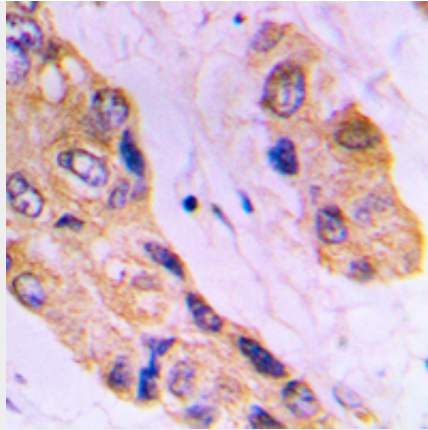
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-DHRS4 Antibody - Images



Western blot analysis of DHRS4 expression in HeLa (A), HCT116 (B), PC12 (C), CT26 (D) whole cell lysates.



Immunohistochemical analysis of DHR54 staining in human prostate 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-DHR54 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DHR54. The exact sequence is proprietary.