

**DHRS7 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11186****Specification**

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**DHRS7 Antibody (Internal) - Product Information**

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Application       | IHC                                              |
| Primary Accession | <a href="#">O9Y394</a>                           |
| Reactivity        | Human, Mouse, Rabbit, Monkey, Horse, Bovine, Dog |
| Host              | Rabbit                                           |
| Clonality         | Polyclonal                                       |
| Calculated MW     | 38kDa KDa                                        |

**DHRS7 Antibody (Internal) - Additional Information****Gene ID** 51635**Other Names**

Dehydrogenase/reductase SDR family member 7, 1.1.-., Retinal short-chain dehydrogenase/reductase 4, retSDR4, DHRS7, DHRS7A, RETSDR4

**Target/Specificity**

Human DHRS7. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

DHRS7 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**DHRS7 Antibody (Internal) - Protein Information****Name** DHRS7 ([HGNC:21524](#))**Function**

NADPH-dependent oxidoreductase which catalyzes the reduction of a variety of compounds bearing carbonyl groups including steroids, retinoids and xenobiotics (PubMed:<a href="http://www.uniprot.org/citations/24246760" target="\_blank">24246760</a>, PubMed:<a href="http://www.uniprot.org/citations/26466768" target="\_blank">26466768</a>, PubMed:<a href="http://www.uniprot.org/citations/28687384" target="\_blank">28687384</a>, PubMed:<a href="http://www.uniprot.org/citations/28457967" target="\_blank">28457967</a>). Catalyzes the reduction/inactivation of 5alpha-dihydrotestosterone to 3alpha-androstanediol, with a possible role in the modulation of androgen receptor function (PubMed:<a href="http://www.uniprot.org/citations/28687384" target="\_blank">28687384</a>, PubMed:<a href="http://www.uniprot.org/citations/28457967" target="\_blank">28457967</a>). Involved in

the reduction of all-trans-retinal to all-trans-retinol (PubMed:<a href="http://www.uniprot.org/citations/26466768" target="\_blank">26466768</a>). Converts cortisone to 20beta- dihydrocortisone in vitro, although the physiological relevance of this activity is questionable (PubMed:<a href="http://www.uniprot.org/citations/28457967" target="\_blank">28457967</a>). Reduces exogenous compounds such as quinones (1,2-naphthoquinone, 9,10-phenanthrenequinone and benzoquinone) and other xenobiotics (alpha-diketones) in vitro, suggesting a role in the biotransformation of xenobiotics with carbonyl group (PubMed:<a href="http://www.uniprot.org/citations/24246760" target="\_blank">24246760</a>, PubMed:<a href="http://www.uniprot.org/citations/26466768" target="\_blank">26466768</a>). A dehydrogenase activity has not been detected so far (PubMed:<a href="http://www.uniprot.org/citations/24246760" target="\_blank">24246760</a>). May play a role as tumor suppressor (PubMed:<a href="http://www.uniprot.org/citations/26311046" target="\_blank">26311046</a>).

#### **Cellular Location**

Endoplasmic reticulum membrane. Note=Bound to the endoplasmic reticulum membrane, possibly through a N-terminus anchor. The main bulk of the polypeptide chain was first reported to be facing toward the lumen of the endoplasmic reticulum (PubMed:24246760) However, it was later shown to be facing the cytosol (PubMed:28457967)

#### **Tissue Location**

Found predominantly in the adrenal glands, liver, thyroid, prostate, small intestine, colon, stomach, kidney and brain (PubMed:26466768). Lower levels observed in skeletal muscle, the lung and the spleen (PubMed:26466768).

#### **Volume**

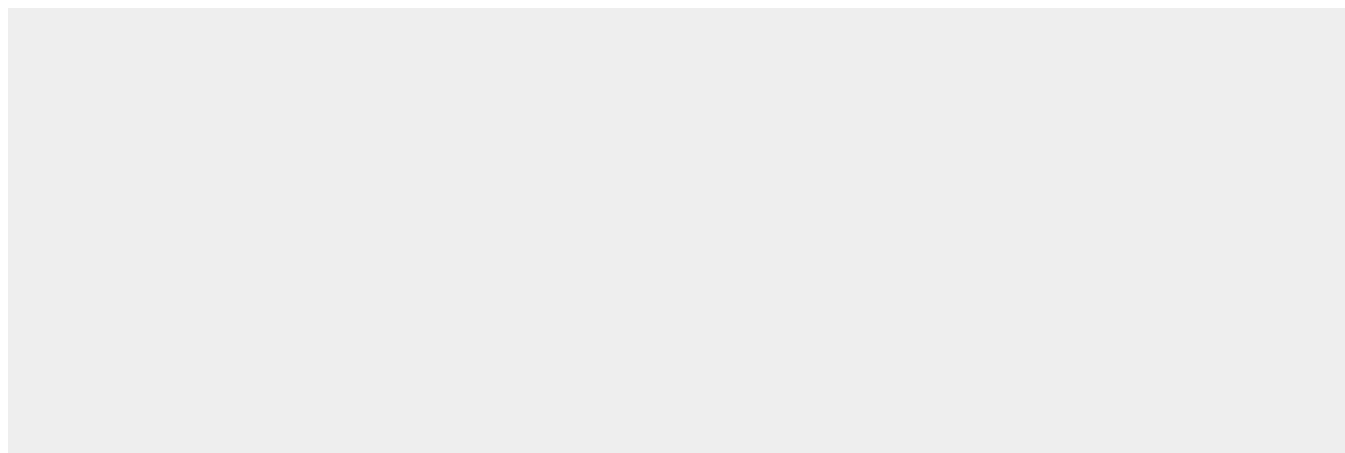
50 µl

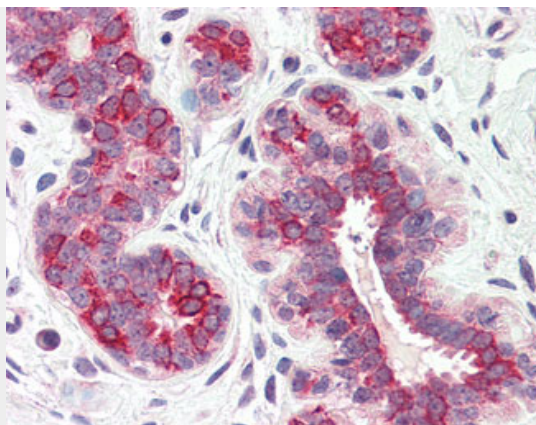
#### **DHRS7 Antibody (Internal) - Protocols**

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](#)

#### **DHRS7 Antibody (Internal) - Images**





Anti-DHRS7 antibody ALS11186 IHC of human breast.

#### **DHRS7 Antibody (Internal) - References**

- Lai C.-H.,et al.Genome Res. 10:703-713(2000).  
Haeseleer F.,et al.Methods Enzymol. 316:372-383(2000).  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Heilig R.,et al.Nature 421:601-607(2003).