10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DHRS7 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP4772a

Specification

DHRS7 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9Y394

DHRS7 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 51635

Other Names
Dehydrogenase/reductase SDR family member 7, 11--, Retinal short-chain dehydrogenase/reductase 4, retSDR4, DHRS7, DHRS7A, RETSDR4

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DHRS7 Antibody (N-term) Blocking Peptide - 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:24246760, PubMed:26466768, PubMed:28687384, PubMed:28457967). Catalyzes the reduction/inactivation of 5alpha-dihydrotestosterone to 3alpha-androstanediol, with a possible role in the modulation of androgen receptor function (PubMed:28687384, PubMed:28457967). Involved in the reduction of all-trans-retinal to all-trans-retinol (PubMed:26466768). Converts cortisone to 20beta- dihydrocortisone in vitro, although the physiological relevance of this activity is questionable (PubMed:28457967). Reduces exogenous compounds such as quinones (1,2-naphtoquinone, 9,10-phenantrenequinone and benzoquinone) and other xenobiotics (alpha-diketones) in vitro, suggesting a role in the biotransformation of xenobiotics with carbonyl

group (PubMed:24246760, PubMed:26466768). A dehydrogenase activity has not been detected so far (PubMed:24246760). May play a role as tumor suppressor (PubMed:26311046).

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).

DHRS7 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DHRS7 Antibody (N-term) Blocking Peptide - Images

DHRS7 Antibody (N-term) Blocking Peptide - Background

DHRS7 is short-chain dehydrogenases/reductases (SDRs), such as DHRS7, catalyze the oxidation/reduction of a wide range of substrates, including retinoids and steroids.

DHRS7 Antibody (N-term) Blocking Peptide - References

Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Heilig, R., et al. Nature 421(6923):601-607(2003)