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DHRS4 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14805

Specification

DHRS4 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9BTZ2
Other Accession	NM_021004, NP_066284
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**29kDa KDa**

DHRS4 antibody - N-terminal region - Additional Information

Gene ID 10901

Alias Symbol	**FLJ11008, NRDR, SCAD-SRL, SDR-SRL, SDR25C1**

Other Names
Dehydrogenase/reductase SDR family member 4, 1.1.1.184, 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, DHRS4

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-DHRS4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
DHRS4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

DHRS4 antibody - N-terminal region - 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, PubMed:19056333). 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:19056333). Diplays low activity toward all-trans-retinal and no activity toward 9-cis-retinal as compared to non-primate mammals (PubMed:18571493, PubMed:19056333). In the reverse reaction, catalyze the NAD-dependent oxidation of 3beta- hydroxysteroids and alcohol, but with much lower efficiency (PubMed:18571493, PubMed:19056333). Involved in the metabolism of 3beta-hydroxysteroids, isatin and xenobiotic carbonyl compounds (PubMed:18571493, PubMed:19056333).

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

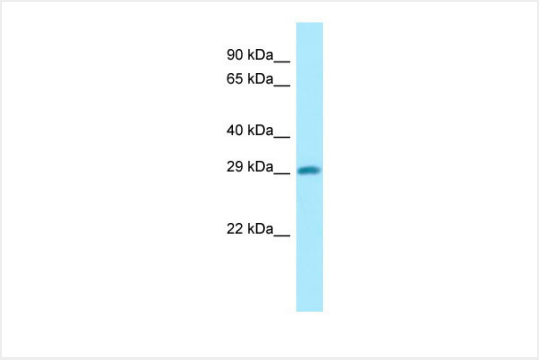
Tissue Location
[Isoform 1]: Predominantly expressed in normal cervix (at protein level). [Isoform 5]: Expressed in a few neoplastic cervical tissues. [Isoform 8]: High expression in liver.

DHRS4 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DHRS4 antibody - N-terminal region - Images



WB Suggested Anti-DHRS4 Antibody Titration: 1.0 µg/ml
Positive Control: COLO205 Whole CellDHRS4 is supported by BioGPS gene expression data to be expressed in COLO205

DHRS4 antibody - N-terminal region - References

Fransen M.,et al.Biochem. J. 340:561-568(1999).
Furukawa A.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
Du J.,et al.Yi Chuan Xue Bao 31:661-667(2004).
Tu Q.,et al.Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
Li Y.F.,et al.Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.