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DHRS4 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14805

Product Information

Application	WB
Primary Accession	Q9BTZ2
Other Accession	NM_021004, NP_066284
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29537

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.

Protein Information

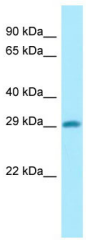
Name	DHRS4 (HGNC:16985)
Function	NADPH-dependent oxidoreductase which catalyzes the reduction of a variety of compounds bearing carbonyl groups including ketosteroids, alpha-dicarbonyl compounds, aldehydes, aromatic ketones and quinones (PubMed:18571493, PubMed:19056333). Reduces 3-ketosteroids and benzil 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). Displays 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.

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.