

Cat. No:	ABN09971
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human DHRS4. AA range:191-240
Reactivity:	Human,Rat,Mouse
Applications:	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight:	32-34kDa
Purification:	Affinity purification
Synonyms:	DHRS4; 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 catalytic activity:R-CHOH-R' + NADP(+) = R-CO-R' + NADPH.,function:Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co-factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones.,miscellaneous:Inhibited by kaempferol, quercetin, genistein and myristic acid.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,subcellular location:Isoform 1 is peroxisomal, while isoform 4 is not.,subunit:Homotetramer.,tissue specificity:Isoform 1 is predominantly expressed in normal cervix (at protein level). Isoform 4 is expressed in some neoplastic cervical tissues, but not in normal cervix (at protein level). Isoforms 5 and 6 are expressed in a few neoplastic cervical tissues.,catalytic activity:R-CHOH-R' + NADP(+) = R-CO-R' + NADPH.,function:Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co-factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones.,miscellaneous:Inhibited by kaempferol, quercetin, genistein and myristic acid.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,subcellular location:Isoform 1 is peroxisomal, while isoform 4 is not.,subunit:Homotetramer.,tissue specificity:Isoform 1 is predominantly expressed in normal cervix (at protein level). Isoform 4 is expressed in some neoplastic cervical tissues, but not in normal cervix (at protein level). Isoforms 5 and 6 are expressed in a few neoplastic cervical tissues.,
Background:	
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

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