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RDH11 Rabbit pAb

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Catalog # AP58395

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8TC12
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35386
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RDH11
Epitope Specificity	31-130/318
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Single-pass type II membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is an NADPH-dependent retinal reductase and a short-chain dehydrogenase/reductase. The encoded protein has no steroid dehydrogenase activity.

Additional Information

Gene ID	51109
Other Names	Retinol dehydrogenase 11, 1.1.1.300, Androgen-regulated short-chain dehydrogenase/reductase 1, HCV core-binding protein HCBP12, Prostate short-chain dehydrogenase/reductase 1, Retinal reductase 1, RalR1, Short chain dehydrogenase/reductase family 7C member 1, RDH11, ARSDR1, PSDR1, SDR7C1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RDH11

Synonyms	ARSDR1, PSDR1, SDR7C1
Function	Retinol dehydrogenase with a clear preference for NADP. Displays high activity towards 9-cis, 11-cis and all-trans-retinol, and to a lesser extent on 13-cis-retinol (PubMed:12036956, PubMed:12226107, PubMed:29410696). Exhibits a low reductive activity towards unsaturated medium-chain aldehydes such as cis -6-nonenal and no activity toward nonanal or 4-hydroxy-nonenal (PubMed:15865448). Has no dehydrogenase activity towards steroid (PubMed:12036956, PubMed:12226107).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein
Tissue Location	Predominantly expressed in the epithelial cells of prostate, in both basal and luminal secretory cell populations Expressed at low levels in spleen, thymus, testis, ovary, small intestine, colon, peripherical blood leukocytes, kidney, adrenal gland and fetal liver. Not detected in prostatic fibromuscular stromal cells, endothelial cells, or infiltrating lymphocytes

Background

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