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HSD17B11 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9799a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8NBQ5
Other Accession	Q4JK73
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24894
Calculated MW	32964
Antigen Region	81-110

Additional Information

Gene ID	51170
Other Names	Estradiol 17-beta-dehydrogenase 11, 17-beta-hydroxysteroid dehydrogenase 11, 17-beta-HSD 11, 17bHSD11, 17betaHSD11, 17-beta-hydroxysteroid dehydrogenase XI, 17-beta-HSD XI, 17betaHSDXI, Cutaneous T-cell lymphoma-associated antigen HD-CL-03, CTCL-associated antigen HD-CL-03, Dehydrogenase/reductase SDR family member 8, Retinal short-chain dehydrogenase/reductase 2, retSDR2, HSD17B11, DHRS8, PAN1B
Target/Specificity	This HSD17B11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-110 amino acids from the N-terminal region of human HSD17B11.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HSD17B11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HSD17B11
Synonyms	DHRS8, PAN1B, SDR16C2
Function	Can convert androstan-3-alpha,17-beta-diol (3-alpha-diol) to androsterone in vitro, suggesting that it may participate in androgen metabolism during steroidogenesis. May act by metabolizing compounds that stimulate steroid synthesis and/or by generating metabolites that inhibit it. Has no activity toward DHEA (dehydroepiandrosterone), or A- dione (4-androste-3,17-dione), and only a slight activity toward testosterone to A-dione. Tumor-associated antigen in cutaneous T-cell lymphoma.
Cellular Location	Endoplasmic reticulum {ECO:0000250|UniProtKB:Q9EQ06}. Lipid droplet {ECO:0000250|UniProtKB:Q9EQ06}. Note=Redistributed from the endoplasmic reticulum to lipids droplets in the cell upon induction of lipids droplet formation. {ECO:0000250|UniProtKB:Q9EQ06}
Tissue Location	Present at high level in steroidogenic cells such as syncytiotrophoblasts, sebaceous gland, Leydig cells, and granulosa cells of the dominant follicle and corpus luteum. In lung, it is detected in the ciliated epithelium and in acini of adult trachea, in bronchioles, but not in alveoli. In the eye, it is detected in the nonpigmented epithelium of the ciliary body and, at lower level, in the inner nuclear layer of the retina (at protein level). Widely expressed Highly expressed in retina, pancreas, kidney, liver, lung, adrenal, small intestine, ovary and heart.

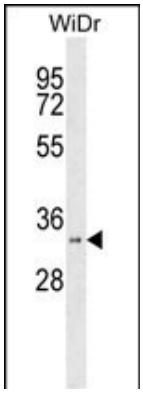
Background

Short-chain alcohol dehydrogenases, such as HSD17B11, metabolize secondary alcohols and ketones.

References

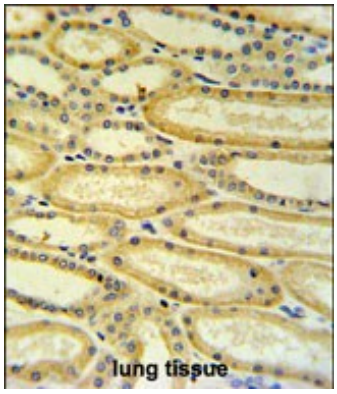
Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009)
Nakamura, Y., et al. Neoplasma 56(4):317-320(2009)
Horiguchi, Y., et al. Arch. Biochem. Biophys. 479(2):121-130(2008)
Hartmann, T.B., et al. Br. J. Dermatol. 150(2):252-258(2004)
Chai, Z., et al. Endocrinology 144(5):2084-2091(2003)

Images



Western blot analysis of HSD17B11 Antibody (N-term) (Cat. #AP9799a) in WiDr cell line lysates (35ug/lane). HSD17B11 (arrow) was detected using the purified Pab.

HSD17B11 Antibody (N-term) (Cat. #AP9799a) IHC analysis in formalin fixed and paraffin embedded lung tissue followed by peroxidase conjugation of the



secondary antibody and DAB staining. This data demonstrates the use of the HSD17B11 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.