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Anti-DCXR Antibody (aa232-244)

Goat Anti Human Polyclonal Antibody
Catalog # ALS17811

Product Information

Application	WB, IHC-P, E
Primary Accession	Q7Z4W1
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	25913
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	51181
Alias Symbol	DCXR
Other Names	DCXR, Carbonyl reductase 2, DCR, HCR2, HCRII, L-xylulose reductase, XR, Carbonyl reductase II, KIDCR, Kidney dicarbonyl reductase, p34H, SDR20C1, Sperm surface protein P34H
Target/Specificity	Human DCXR.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-DCXR Antibody (aa232-244) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DCXR
Synonyms	SDR20C1
Function	Catalyzes the NADPH-dependent reduction of several pentoses, tetroses, trioses, alpha-dicarbonyl compounds and L-xylulose (PubMed:11882650, PubMed:19337691, PubMed:40737316). Can use both NAD and NADP as cosubstrate but shows higher activity with NADP (PubMed:11882650). Participates in the uronate cycle of glucose metabolism (PubMed:11882650). May play a role in the water absorption and cellular osmoregulation in the proximal renal tubules by producing xylitol, an osmolyte, thereby preventing osmolytic stress from occurring in the renal tubules (PubMed:11882650).
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:Q91X52}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q91X52}. Cytoplasmic vesicle,

	secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q91XV4}. Note=Probably recruited to membranes via an interaction with phosphatidylinositol {ECO:0000250|UniProtKB:Q91XV4}
Tissue Location	Highly expressed in kidney, liver and epididymis (at protein level) (PubMed:11882650). In the epididymis, it is mainly expressed in the proximal and distal sections of the corpus region (PubMed:10385429).

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