

Rabbit anti-Human DCXR Polyclonal Antibody | anti-DCXR antibody

Anti-DCXR Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255767	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

DCXR; Polyclonal Antibody; Anti-DCXR Antibody; Rabbit Polyclonal; DCXR/HCR2 Antibody; Rabbit PAb; Antigen Affinity Purified; dicarbonyl/L-xylulose reductase; Anti-DCR Antibody; Anti-HCR2 Antibody; Anti-HCR2 Antibody; Anti-KIDCR Antibody; Anti-P34H Antibody; Anti-PNTSU Antibody; Anti-SDR20C1 Antibody; Anti-XR Antibody; anti-DCXR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DCXR/HCR2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-DCXR antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human DCXR/HCR2 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human DCXR/HCR2 (rh DCXR/HCR2). DCXR/HCR2 specific IgG was purified by Human DCXR/HCR2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-DCXR rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 27 kDa Observed band size: 29 kDa



IP (Immunoprecipitation)

DCXR was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg A431 Whole Cell Lysate 2 uL anti-DCXR rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-DCXR rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 26 kDa Observed band size: 26 kDa

**IHC (Immunohistochemistry)**

Immunochemical staining of human DCXR in human liver with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human DCXR in human kidney with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human DCXR in human epididymis with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-DCXR antibody	DCXR, also known as HCR2, belongs to the short-chain dehydrogenases/reductases (SDR) family. It is highly expressed in kidney, liver and epididymis. In the epididymis, DCXR is mainly expressed in the proximal and distal sections of the corpus region. HCR2 is weakly or not expressed in brain, lung, heart, spleen and testis. DCXR catalyzes the NADPH-dependent reduction of several pentoses, tetroses, trioses, alpha-dicarbonyl compounds and L-xylulose. DCXR participates in the uronate cycle of glucose metabolism. It 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.
References	Kim W, et al. (2011) Systematic and quantitative assessment of the ubiquitin-modified proteome. Mol Cell. 44(2):325-40. Pierce SB, et al. (2011) Garrod's fourth inborn error of metabolism solved by the identification of mutations causing pentosuria. Proc Natl Acad Sci. 108(45):18313-7. Udeshi ND, et al. (2012) Methods for quantification of in vivo changes in protein ubiquitination following proteasome and deubiquitinase inhibition. Mol Cell Proteomics. 11(5):148-59.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50400451
NCBI GeneID	51181
UniProt Accession #	Q7Z4W1 ; Q9BTZ3 ; Q9UHY9
Molecular Weight	244
NCBI Official Full Name	L-xylulose reductase
NCBI Official Synonym Full Names	dicarbonyl/L-xylulose reductase
NCBI Official Symbol	DCXR
NCBI Official Synonym Symbols	XR; DCR; HCR2; P34H; HCRII; KIDCR; PNTSU; SDR20C1
NCBI Protein Information	L-xylulose reductase; carbonyl reductase 2; carbonyl reductase II; sperm surface protein P34H; kidney dicarbonyl reductase; short chain dehydrogenase/reductase family 20C, member 1
UniProt Protein Name	L-xylulose reductase
UniProt Gene Name	DCXR
UniProt Synonym Gene Names	XR; kiDCR
UniProt Entry Name	DCXR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

