abcam

Product datasheet

Anti-DCXR antibody ab191369

2 Images

Overview

Product name	Anti-DCXR antibody
Description	Rabbit polyclonal to DCXR
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human DCXR aa 182-244. The exact sequence is proprietary. Database link: Q7Z4W1
Positive control	Human kidney tissue; HepG2 whole cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 59% PBS, 40% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab191369** in the following tested applications.

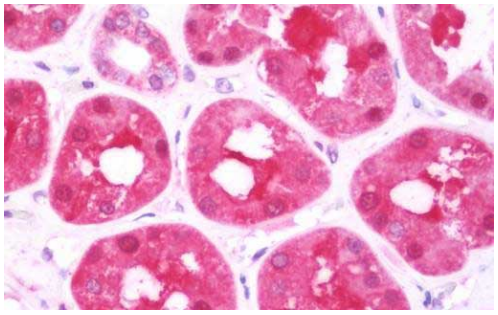
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 26 kDa.
IHC-P		Use a concentration of 7.5 µg/ml.

Target

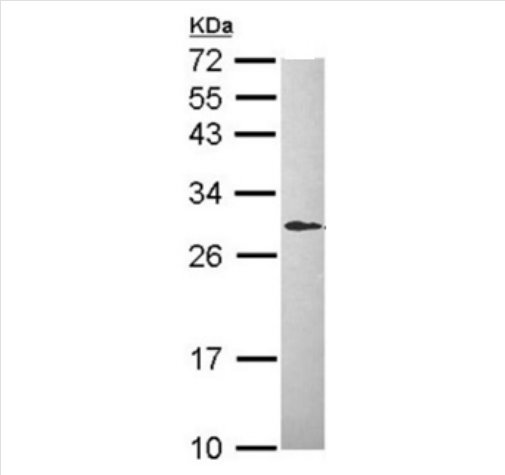
Function	Catalyzes the NADPH-dependent reduction of several pentoses, tetroses, trioses, alpha-dicarbonyl compounds and L-xylulose. Participates in the uronate cycle of glucose metabolism. May play a role in the water absorption and cellular osmoregulation in the proximal renal tubules by producing xylitol, an osmolyte, thereby preventing osmolytic stress from occurring in the renal tubules.
Tissue specificity	Highly expressed in kidney, liver and epididymis. In the epididymis, it is mainly expressed in the proximal and distal sections of the corpus region. Weakly or not expressed in brain, lung, heart, spleen and testis.
Involvement in disease	Note=The enzyme defect in pentosuria has been shown to involve L-xylulose reductase. Essential pentosuria is an inborn error of metabolism characterized by the excessive urinary excretion of the pentose L-xylulose.
Sequence similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Cellular localization	Membrane. Probably recruited to membranes via an interaction with phosphatidylinositol.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCXR antibody (ab191369)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue labeling DCXR with ab191369 at 7.5 µg/ml.



Western blot - Anti-DCXR antibody (ab191369)

Anti-DCXR antibody (ab191369) at 1/1000 dilution + HepG2 whole cell lysate at 30 µg

Predicted band size: 26 kDa

12% SDS-PAGE.

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