

Datasheet for ABIN359606  
**anti-DCXR antibody (Middle Region)**

## 3 Images

[Go to Product page](#)

## Overview

Quantity:	0.4 mL
Target:	DCXR
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DCXR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	KLH conjugated synthetic peptide between 79-106 amino acids from the Central region of Human DCXR.
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human and Mouse DCXR. Other species not tested.
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

## Target Details

Target:	DCXR
Alternative Name:	L-Xylulose Reductase ( <a href="#">DCXR Products</a> )

## Target Details

Background:	DCXR is an enzyme that has both diacetyl reductase and L-xylulose reductase activities. 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. Cellular Location: Membrane, Peripheral membrane protein (By similarity). Note=Probably recruited to membranes via an interaction with phosphatidylinositol (By similarity). Tissue Location: 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.Synonyms: Carbonyl reductase II, DCXR, Dicarbonyl/L-xylulose reductase, Kidney dicarbonyl reductase, P34H, Sperm surface protein P34H, XR
Molecular Weight:	25913 Da (calculated)
Gene ID:	51181, 9606
UniProt:	<a href="#">Q7Z4W1</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a>

## Application Details

Application Notes:	ELISA: 1/1,000 Western blotting: 1/50 - 1/100 Immunohistochemistry on Paraffin Sections: 1/50-1/100
Restrictions:	For Research Use only

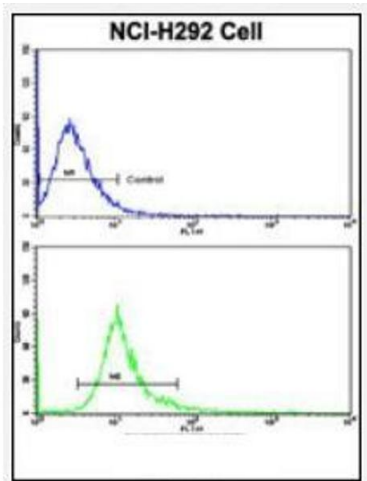
## Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

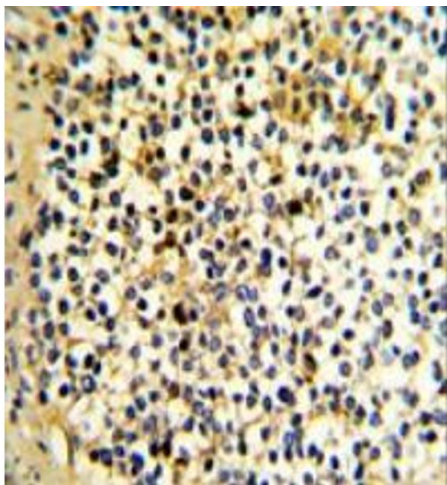
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at-20 °C for longer.

Images



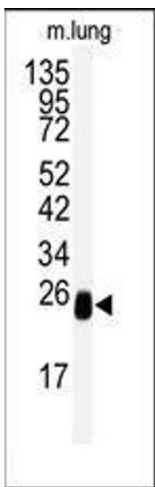
Flow Cytometry

**Image 1.** Flow Cytometric analysis of NCI-H292 cells using DCXR Antibody (Center) Cat.-No AP14090PU-N (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin-Fixed, Paraffin-Embedded Human kidney carcinoma stained with DCXR Antibody (Center) followed which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blotting

**Image 3.** Western blot analysis of anti-DCXR Antibody (Center) Cat.-No AP14090PU-N in Mouse lung tissue lysates (35ug/lane). DCXR (arrow) was detected using the purified Pab.