

DCXR Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7443c**Specification**

DCXR Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q7Z4W1](#)**DCXR Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 51181**Other Names**

L-xylulose reductase, XR, Carbonyl reductase II, Dicarboxyl/L-xylulose reductase, Kidney dicarboxyl reductase, kiDCR, Sperm surface protein P34H, DCXR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7443c](/products/AP7443c) was selected from the Center region of human DCXR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DCXR Antibody (Center) Blocking Peptide - Protein Information**Name** DCXR**Synonyms** SDR20C1**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. Note=Probably recruited to membranes via an interaction with phosphatidylinositol.

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.

DCXR Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DCXR Antibody (Center) Blocking Peptide - Images**DCXR Antibody (Center) Blocking Peptide - Background**

DCXR is an enzyme that has both diacetyl reductase and L-xylulose reductase activities.

DCXR Antibody (Center) Blocking Peptide - References

Nakagawa J., Ishikura S.J. Biol. Chem. 277:17883-17891(2002) Xia X.Y., Xu X.F., Gao Y. Zhonghua Nan Ke Xue 9:24-27(2003) El-Kabbani O., Chung R.P.-T. Acta Crystallogr. D 58:1379-1380(2002)