

DCXR Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a partial recombinant DCXR.****Catalog # AT1728a****Specification**

DCXR Antibody (monoclonal) (M03) - Product Information

Application	WB, IHC
Primary Accession	Q7Z4W1
Other Accession	NM_016286
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	25913

DCXR Antibody (monoclonal) (M03) - 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

DCXR (NP_057370, 145 a.a. ~ 244 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

DCXR Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

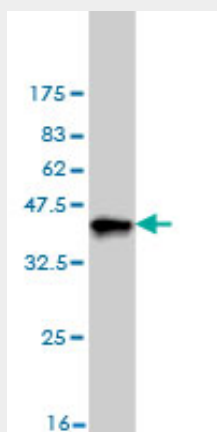
DCXR Antibody (monoclonal) (M03) - Protocols

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

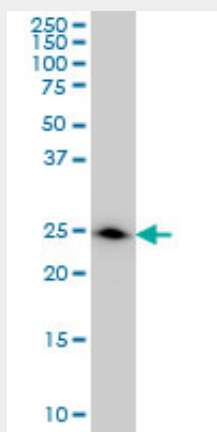
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

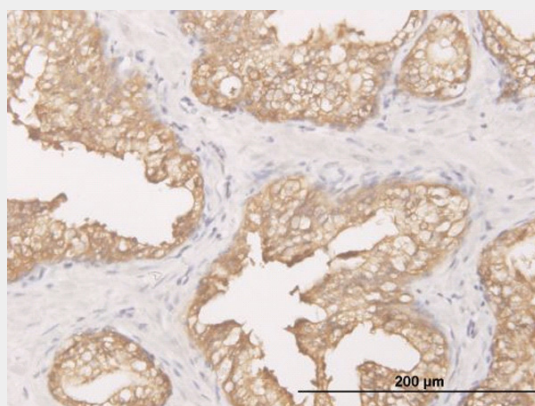
DCXR Antibody (monoclonal) (M03) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



DCXR monoclonal antibody (M03), clone 6A6 Western Blot analysis of DCXR expression in A-431 (Cat # AT1728a)



Immunoperoxidase of monoclonal antibody to DCXR on formalin-fixed paraffin-embedded human prostate. [antibody concentration 1 ug/ml]

DCXR Antibody (monoclonal) (M03) - Background

The protein encoded by this gene acts as a homotetramer to catalyze diacetyl reductase and L-xylulose reductase reactions. The encoded protein may play a role in the uronate cycle of glucose metabolism and in the cellular osmoregulation in the proximal renal tubules. Defects in this gene are a cause of pentosuria. Two transcript variants encoding different isoforms have been found for this gene.

DCXR Antibody (monoclonal) (M03) - References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Structure/function analysis of a critical disulfide bond in the active site of L-xylulose reductase. Zhao HT, et al. Cell Mol Life Sci, 2009 May. PMID 19337691. The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. Persson B, et al. Chem Biol Interact, 2009 Mar 16. PMID 19027726. Dicarbonyl/L-xylulose reductase: a potential biomarker identified by laser-capture microdissection-micro serial analysis of gene expression of human prostate adenocarcinoma. Cho-Vega JH, et al. Cancer Epidemiol Biomarkers Prev, 2007 Dec. PMID 18086765. Suppression of renal alpha-dicarbonyl compounds generated following ureteral obstruction by kidney-specific alpha-dicarbonyl/L-xylulose reductase. Odani H, et al. Ann N Y Acad Sci, 2008 Apr. PMID 18079483.