

# DHCR24 Monoclonal antibody

Catalog Number: 60028-1-Ig

## Basic Information

<b>Catalog Number:</b> 60028-1-Ig	<b>GenBank Accession Number:</b> BC004375	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2600 ug/ml by Nanodrop and 1080 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1718	<b>CloneNo.:</b> 2F6E11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q15392	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> 24-dehydrocholesterol reductase	
<b>Immunogen Catalog Number:</b> AG0756	<b>Calculated MW:</b> 60 kDa, 516 aa	
	<b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HEK-293 cells, HepG2 cells, MCF-7 cells
	<b>IHC :</b> human prostate cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

DHCR24(3-beta-hydroxysterol delta-24-reductase), also named as Seladin-1 or Diminuto/dwarf1 homolog, is a member of the flavin adenine dinucleotide (FAD)-dependent oxidoreductases, and catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis. The dhcr24 expression was shown to be down regulated in brain areas affected by Alzheimer's disease and endogenous DHCR24/seladin-1 levels are highly up-regulated upon acute oxidative stress while expression declines to very low levels upon chronic exposure (PMID:17984220). In apoptotic cells, endogenous seladin-1 was cleaved to a 40 kDa derivative in a caspase-dependent manner (PMID: 11007892).

## Storage

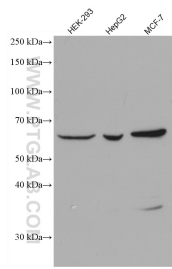
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

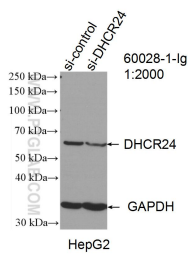
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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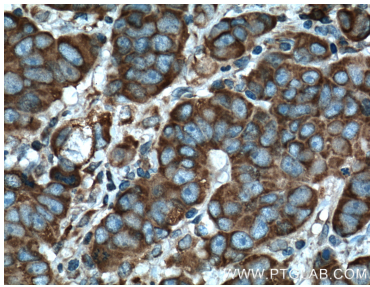
Selected Validation Data



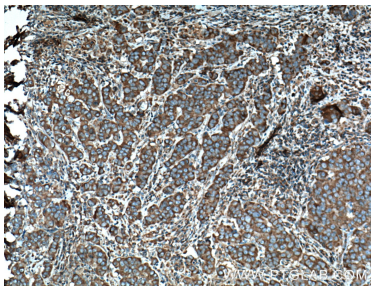
Various lysates were subjected to SDS PAGE followed by western blot with 60028-1-Ig (DHCR24 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of DHCR24 antibody (60028-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHCR24 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 60028-1-Ig (DHCR24 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 60028-1-Ig (DHCR24 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).