

# DHCR24 Monoclonal antibody

Catalog Number: 60028-1-Ig

## Basic Information

Catalog Number:	60028-1-Ig	GenBank Accession Number:	BC004375	Purification Method:	Protein G purification
Concentration:	2600 µg/ml	GeneID (NCBI):	1718	CloneNo.:	2F6E11
Source:	Mouse	UNIPROT ID:	Q15392	Recommended Dilutions:	WB: 1:1000-1:4000 IHC: 1:50-1:500
Isotype:	IgG1	Full Name:	24-dehydrocholesterol reductase		
Immunogen Catalog Number:	AG0756	Calculated MW:	60 kDa, 516 aa		
		Observed MW:	60 kDa		

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Species Specificity:	human	WB :	HEK-293 cells, HepG2 cells, MCF-7 cells
		IHC :	human prostate cancer tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			

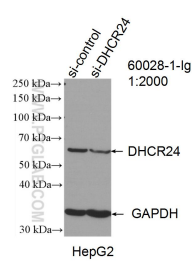
## Background Information

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).

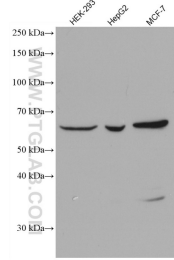
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

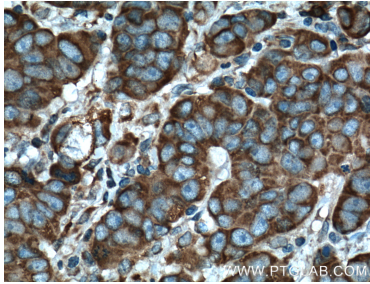
Selected Validation Data



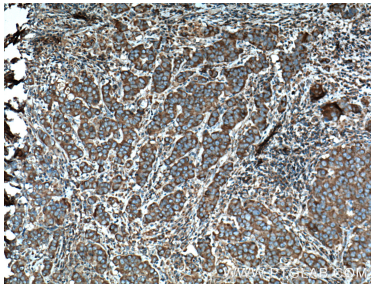
WB result of DHCR24 antibody (60028-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHCR24 transfected HepG2 cells.



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.



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).