

DHCR24 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2840C

Specification

DHCR24 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q15392
Other Accession	Q5BQE6 , Q8VCH6
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	60101
Antigen Region	218-246

DHCR24 Antibody (Center) - Additional Information

Gene ID 1718

Other Names

Delta(24)-sterol reductase, 24-dehydrocholesterol reductase, 3-beta-hydroxysterol delta-24-reductase, Diminuto/dwarf1 homolog, Seladin-1, DHCR24, KIAA0018

Target/Specificity

This DHCR24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 218-246 amino acids from the Central region of human DHCR24.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DHCR24 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DHCR24 Antibody (Center) - Protein Information

Name DHCR24

Synonyms KIAA0018

Function Catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis (PubMed:[11519011](#), PubMed:[21671375](#), PubMed:[22178193](#), PubMed:[25637936](#)). In addition to its cholesterol-synthesizing activity, can protect cells from oxidative stress by reducing caspase 3 activity during apoptosis induced by oxidative stress (PubMed:[11007892](#), PubMed:[22010141](#)). Also protects against amyloid-beta peptide-induced apoptosis (PubMed:[11007892](#)).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Golgi apparatus membrane; Single-pass membrane protein

Tissue Location

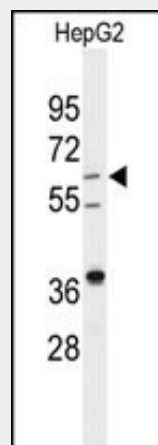
Highly expressed in brain and adrenal gland with moderate expression in liver, lung, spleen, prostate and spinal cord Low expression in heart, uterus and prostate. Undetectable in blood cells. In the brain, strongly expressed in cortical regions, substantia nigra, caudate nucleus, hippocampus, medulla oblongata and pons. In brains affected by Alzheimer disease, expression in the inferior temporal lobe is substantially lower than in the frontal cortex

DHCR24 Antibody (Center) - 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](#)

DHCR24 Antibody (Center) - Images



Western blot analysis of anti-DHCR24 Antibody (Center)(Cat.#AP2840c) in HepG2 cell line lysates (35ug/lane). DHCR24 (arrow) was detected using the purified Pab.

DHCR24 Antibody (Center) - Background

DHCR24 is a flavin adenine dinucleotide (FAD)-dependent oxidoreductase which catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis. This protein contains a leader sequence that directs it to the endoplasmic reticulum membrane. Missense mutations in DHCR24 gene have been associated with desmosterolosis. Also, reduced expression of DHCR24 gene occurs in the temporal cortex of Alzheimer disease patients and overexpression has been observed in adrenal gland cancer cells.

DHCR24 Antibody (Center) - References

Greeve I., Hermans-Borgmeyer I.J. *Neurosci.* 20:7345-7352(2000)
Waterham H.R., Koster J. *Am. J. Hum. Genet.* 69:685-694(2001)