

DHCR24 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2840c**Specification**

DHCR24 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q15392](#)**DHCR24 Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP2840c](/products/AP2840c) was selected from the Center region of human DHCR24. 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.

DHCR24 Antibody (Center) Blocking Peptide - Protein Information**Name** DHCR24**Synonyms** KIAA0018**Function**

Catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis (PubMed: [11519011](http://www.uniprot.org/citations/11519011), PubMed: [21671375](http://www.uniprot.org/citations/21671375), PubMed: [25637936](http://www.uniprot.org/citations/25637936), PubMed: [22178193](http://www.uniprot.org/citations/22178193)). 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](http://www.uniprot.org/citations/11007892), PubMed: [22010141](http://www.uniprot.org/citations/22010141)).

target="_blank">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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DHCR24 Antibody (Center) Blocking Peptide - Images**DHCR24 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)