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Seladin 1 Rabbit pAb

Catalog # AP98363

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15392
Other Accession	Q15392
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60101
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Seladin 1
Epitope Specificity	101-200/516
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FAD-binding oxidoreductase/transferase type 4 family.Contains 1 FAD-binding PCMH-type domain.
SUBUNIT	Endoplasmic reticulum membrane; Single-pass membrane protein. Golgi apparatus membrane; Single-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Seladin 1 is highly expressed in brain, adrenal tissues and adrenal tumours, where this enzyme catalyzes the reduction of the delta-24 double bond of sterol intermediates such as desmosterol, during cholesterol biosynthesis. In addition, Seladin 1 has an anti-apoptotic function by reducing caspase 3 activity during oxidative stress-induced apoptosis and protecting cells against amyloid-beta peptide-induced apoptosis. Several studies have identified a reduction in expression levels of this enzyme in brain regions affected by Alzheimer's disease (hippocampus and the subventricular zone).

Additional Information

Gene ID	1718
Other Names	DCE; Nbla03646; SELADIN1; seladin-1; 2310076D10Rik; 5830417J06Rik; mKIAA0018; DHC24_HUMAN; DHCR24; 24-dehydrocholesterol reductase; 3-beta-hydroxysterol Delta-24-reductase; Diminuto/dwarf1 homolog; 1.3.1.72; KIAA0018; DHC24_MOUSE; DHC24_RAT; desmosterol-to-cholesterol enzyme; Delta(24)-sterol reductase; 3beta-hydroxysterol delta24 reductase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.