DHCR24/Seladin-1 (C59D8) Rabbit mAb





Orders:	877-616-CELL (2355) orders@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q15392	Entrez-Gene Id: 1718	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Ser	nsitivity	DHCR24/Seladin-1 (C59D8) Rabbit mAb detects endogenous levels of total DHCR24/Seladin-1 protein.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human DHCR24/Seladin-1.					
Background		DHCR24/Seladin-1 was identified as a molecular basis for desmosterolosis (1). It encodes for 24- dehydrocholesterol reductase (3β -hydroxysterol Δ -24-reductase). This enzyme reduces desmosterol in cholesterol biosynthesis (1). Recessive mutations in this gene in desmosterolosis patients lead to a defective enzyme resulting in increased levels of desmosterol (1). DHCR24/Seladin-1 is induced upon oxidative stress and was found to mediate Ras-induced senescence resulting from increased reactive oxygen species (2). Studies further indicate that the level of DHCR24/Seladin-1 is induced in the acute response and reduced in the chronic response to oxidative stress in a cholesterol dependent manner (3). Moreover, overexpression of DHCR24/Seladin-1 bearing two mutations that abolish its reductase acitivity causes the cells to lose protection from oxidative stress (3). These findings thus link the reductase activity of DHCR24/Seladin-1 to its protective role in oxidative stress. This enzyme has also been demonstrated to be a hydrogen peroxide scavenger (4).					
Background R	eferences	1. Waterham, H.R. et al. (2001) <i>Am J Hum Genet</i> 69, 685-94. 2. Wu, C. et al. (2004) <i>Nature</i> 432, 640-5. 3. Kuehnle, K. et al. (2008) <i>Mol Cell Biol</i> 28, 539-50. 4. Lu, X. et al. (2008) <i>Endocrinology</i> 149, 3267-73.					
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ley	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivi	ty Key	H: Human M: Mouse					
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