

ARG56151 anti-DHCR7 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DHCR7
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DHCR7
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 437-463 (C-terminus) of Human DHCR7.
Conjugation	Un-conjugated
Alternate Names	7-DHC reductase; SLOS; EC 1.3.1.21; 7-dehydrocholesterol reductase; Putative sterol reductase SR-2; Sterol Delta

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	

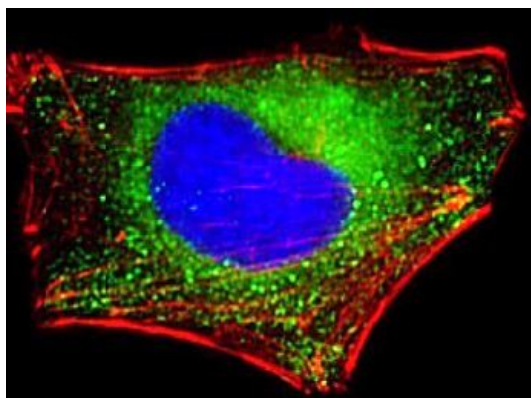
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

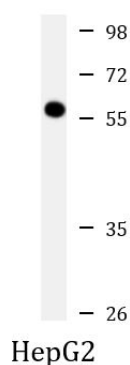
Database links	GeneID: 13360 Mouse GeneID: 1717 Human Swiss-port # O88455 Mouse Swiss-port # Q9UBM7 Human
Gene Symbol	DHCR7
Gene Full Name	7-dehydrocholesterol reductase
Background	This gene encodes an enzyme that removes the C(7-8) double bond in the B ring of sterols and catalyzes the conversion of 7-dehydrocholesterol to cholesterol. This gene is ubiquitously expressed and its transmembrane protein localizes to the endoplasmic reticulum membrane and nuclear outer membrane. Mutations in this gene cause Smith-Lemli-Opitz syndrome (SLOS); a syndrome that is metabolically characterized by reduced serum cholesterol levels and elevated serum 7-dehydrocholesterol levels and phenotypically characterized by mental retardation, facial dysmorphism, syndactyly of second and third toes, and holoprosencephaly in severe cases to minimal physical abnormalities and near-normal intelligence in mild cases. Alternative splicing results in multiple transcript variants that encode the same protein.[provided by RefSeq, Aug 2009]
Function	Production of cholesterol by reduction of C7-C8 double bond of 7-dehydrocholesterol (7-DHC). [UniProt]
Calculated Mw	54 kDa

Images



ARG56151 anti-DHCR7 antibody ICC/IF image

Immunofluorescence: 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells stained with ARG56151 anti-DHCR7 antibody (green) at 1:25 dilution. Cytoplasmic actin is stained with Dylight® 554 conjugated with Phalloidin (red) at 1:100 dilution. DAPI (blue) for nuclear staining.



ARG56151 anti-DHCR7 antibody WB image

Western blot: 20 µg of HepG2 cell lysate stained with ARG56151 anti-DHCR7 antibody at 1:2000 dilution.