

HMGR / LDLCQ3 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2866a

Specification

HMGR / LDLCQ3 Antibody (internal region) - Product Information

Application	E
Primary Accession	P04035
Other Accession	NP_000850.1 , 3156
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	97476

HMGR / LDLCQ3 Antibody (internal region) - Additional Information

Gene ID 3156

Other Names

3-hydroxy-3-methylglutaryl-coenzyme A reductase, HMG-CoA reductase, 1.1.1.34, HMGR

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HMGR / LDLCQ3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

HMGR / LDLCQ3 Antibody (internal region) - Protein Information

Name HMGR ([HGNC:5006](#))

Function

Catalyzes the conversion of (3S)-hydroxy-3-methylglutaryl-CoA (HMG-CoA) to mevalonic acid, the rate-limiting step in the synthesis of cholesterol and other isoprenoids, thus plays a critical role in cellular cholesterol homeostasis (PubMed: [21357570](http://www.uniprot.org/citations/21357570), PubMed: [2991281](http://www.uniprot.org/citations/2991281), PubMed: [36745799](http://www.uniprot.org/citations/36745799), PubMed: [6995544](http://www.uniprot.org/citations/6995544)). HMGR is the main target of statins, a class of cholesterol-lowering drugs (PubMed: [11349148](http://www.uniprot.org/citations/11349148))

target="_blank">11349148, PubMed:18540668, PubMed:36745799).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P00347}. Peroxisome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P00347}

Tissue Location

[Isoform 1]: Ubiquitously expressed with the highest levels in the cerebellum, fetal brain, testis, skin and adrenal gland. [Isoform 3]: Low abundance except in skin, esophagus, and uterine cervix.

HMGR / LDLCQ3 Antibody (internal region) - 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](#)

HMGR / LDLCQ3 Antibody (internal region) - Images

HMGR / LDLCQ3 Antibody (internal region) - References

The muscle-specific ubiquitin ligase atrogin-1/MAFbx mediates statin-induced muscle toxicity. Hanai J, Cao P, Tanksale P, Imamura S, Koshimizu E, Zhao J, Kishi S, Yamashita M, Phillips PS, Sukhatme VP, Lecker SH. J Clin Invest. 2007 Dec;117(12):3940-51. PMID: 17992259