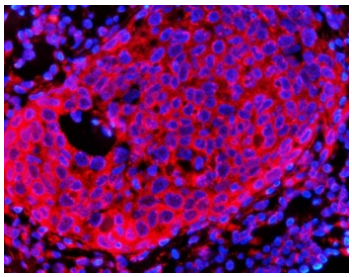
HMG CoA Reductase Antibody / HMGCR (RQ7289)

Catalog No.	Formulation	Size
RQ7289	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

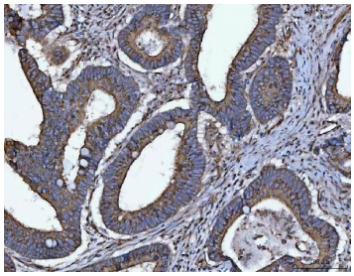
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P04035
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This HMG CoA Reductase antibody is available for research use only.

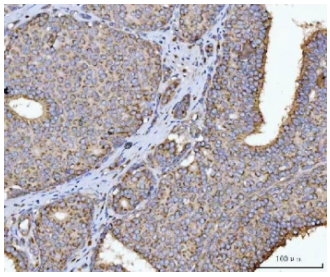


Immunofluorescent staining of FFPE human breast cancer tissue with HMG CoA Reductase antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.

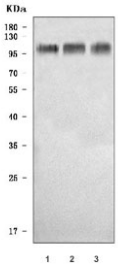
IHC staining of FFPE human testicular cancer tissue with HMG CoA Reductase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



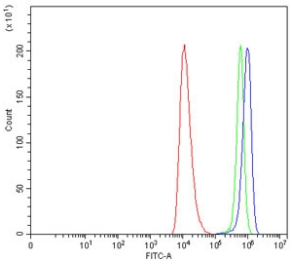
IHC staining of FFPE human colorectal adenocarcinoma tissue with HMG CoA Reductase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer tissue with HMG CoA Reductase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) Caco-2, 2) RT4 and 3) ThP-1 cell lysate with HMG CoA Reductase antibody. Predicted molecular weight ~97 kDa.



Flow cytometry testing of human HEL cells with HMG CoA Reductase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HMG CoA Reductase antibody.

Description

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the HMG CoA Reductase antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids H268-V842) was used as the immunogen for the HMG CoA Reductase antibody.

Storage

After reconstitution, the HMG CoA Reductase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.