Product datasheet

Anti-HMGCR Antibody

Catalog Number: *A00643-3*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-HMGCR Antibody
Gene Name	HMGCR
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human HMGCR recombinant protein (Position: H268-V842).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	97 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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

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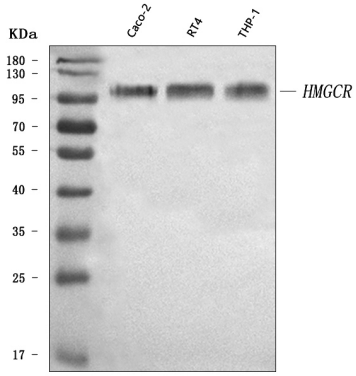
transcript variants encoding different isoforms have been found for this gene.

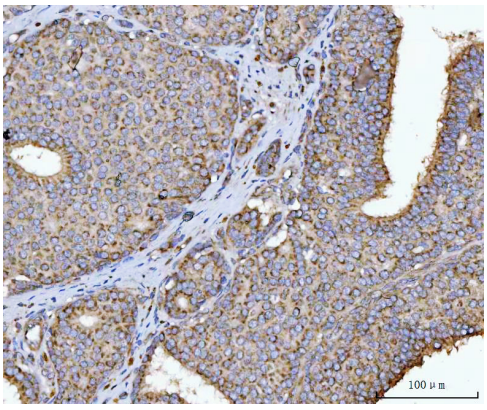
Reference

Anti-HMGCR Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of HMGCR using anti-HMGCR antibody (A00643-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Caco-2 whole cell lysates,
Lane 2: RT4 whole cell lysates,
Lane 3: THP-1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HMGCR antigen affinity purified polyclonal antibody (A00643-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HMGCR at approximately 97 kDa. The expected band size for HMGCR is at 97 kDa.



IHC analysis of HMGCR using anti-HMGCR antibody (A00643-3). HMGCR was detected in a paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-HMGCR Antibody (A00643-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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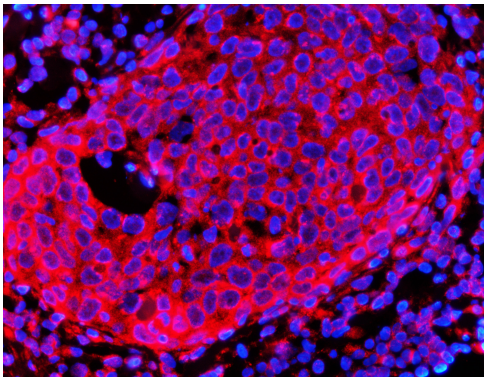
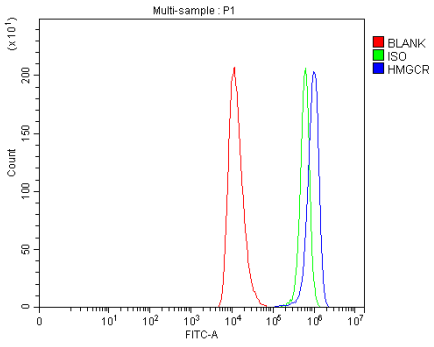


IF analysis using anti- HMGCR antibody (A00643-3) detected in paraffin-embedded section of human breast cancer tissue. The tissue section were stained using the cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog # BA1032) and counterstained with DAPI (blue).



Flow Cytometry analysis of HEL cells using anti-HMGCR antibody (A00643-3).
Overlay histogram showing HEL cells stained with A00643-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-HMGCR Antibody (A00643-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.