Apolipoprotein A4 / apoA-IV Antibody

Mouse Monoclonal Antibody [Clone APOA4/3372]

Catalog No	Format	Size
337-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
337-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
337-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

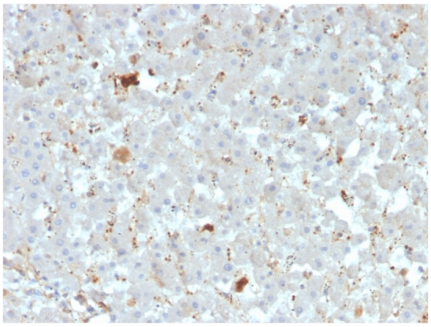
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

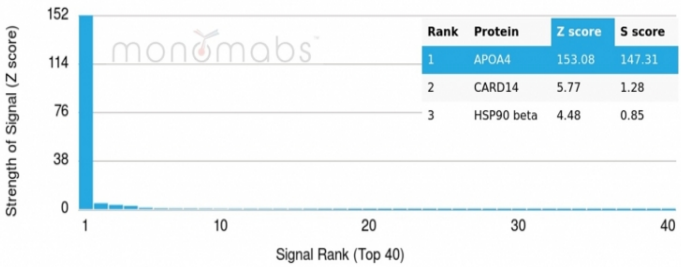
Clone	APOA4/3372
Gene Name	APOA4
Immunogen	Human recombinant APOA4 protein fragment (around aa 239-371) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	46kDa
Cellular Localization	Secreted
Species Reactivity	Human
Positive Control	Human ovarian cancer and cervical cancer tissues.

**Optimal dilution for a specific application should be determined.*

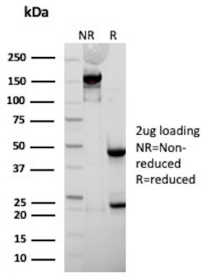
Product Images for Apolipoprotein A4 / apoA-IV Antibody



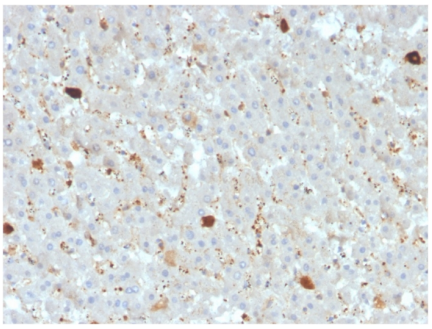
Formalin-fixed, paraffin-embedded human liver carcinoma stained with Apolipoprotein A4 Mouse Monoclonal Antibody (APOA4/3372).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Apolipoprotein A4 Mouse Monoclonal Antibody (APOA4/3372). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified APOA4 Mouse Monoclonal Antibody (APOA4/3372). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human liver stained with Apolipoprotein A4 Mouse Monoclonal Antibody (APOA4/3372).

Specificity & Comments

Apolipoproteins are protein components of plasma lipoproteins. The human apoA-I gene encodes a single chain, 243 amino acid protein which promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A-I is the major protein component of high density lipoprotein (HDL) in the plasma. It can function as a cofactor for lecithin cholesterolacyltransferase (LCAT), which is responsible for the formation of most plasma cholesteryl esters. The human apoA-II gene encodes the second most abundant protein of HDL particles, where it influences plasma levels of free fatty acids (FFA). The human apoA-IV gene encodes a 396 amino acid preprotein, which after proteolytic processing is secreted from the intestine in association with chylomicron particles. ApoA-IV is a potent activator of LCAT in vitro. The human apoA-V gene encodes a 366 amino acid protein that is believed to be an important determinant of plasma triglyceride levels.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.