Mouse anti-Human Apolipoprotein D/APOD Monoclonal Antibody | anti-APOD antibody

Apolipoprotein D/APOD

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215461	**Mouse**	**Human**	**Immunohistochemistry**

PRODUCT SYNONYMS

Apolipoprotein D/APOD; Monoclonal Antibody; APO-D protein; anti-APOD antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	APOD/3412
Specificity	Lipids, such as phospholipids, triacylglycerols and cholesterol, are weakly soluble in aqueous solution and therefore are transported by circulation as components of lipoproteins. Lipoproteins are globular particles that consist of a non-polar core of triacylglycerols and cholesteryl esters surrounded by phospholipid, cholesterol and an amphiphilic coating of protein, known as apolipoproteins (apo). These complexes allow the dissolution and shuttling of their non-polar lipid components. At least nine different apolipoproteins are distributed in significant amounts in different human lipoproteins. Apolipoprotein D (apoD) is a member of the lipocalin superfamily of transporter proteins that bind small hydrophobic molecules, including arachidonic acid (AA). The ability of apoD to bind AA implicates it in pathways associated with membrane phospholipid signal transduction and metabolism. apoD expression has been shown to correlate both with cell cycle arrest and with prognosis in several types of malignancy, including central nervous system astrocytomas and medulloblastomas.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	189
Applicable Applications for anti-APOD antibody	IHC (Immunohistochemistry)
Immunogen	Human recombinant APOD protein fragment (around aa 21-119) (exact sequence is proprietary)
Cellular Localization	Secreted
Hu-chromosome Location	3q29
Positive Control	Human Colon and Breast cancer tissues.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Apolipoprotein D Mouse Monoclonal Antibody (APOD/3412). 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
SDS-PAGE Analysis Purified Apolipoprotein D Mouse Monoclonal Antibody (APOD/3412). Confirmation of Purity and Integrity of Antibody.

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human liver stained with Apolipoprotein D Mouse Monoclonal Antibody (APOD/3412).

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human liver stained with Apolipoprotein D Mouse Monoclonal Antibody (APOD/3412).

ADDITIONAL INFORMATION

References	Navarro, A., et al. Age (Dordr). 2010 Mar;32(1):85-96.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502163
NCBI GeneID	347
NCBI Accession #	NP_001638.1
NCBI GenBank Nucleotide #	NP_001638.1
UniProt Accession #	P05090
Molecular Weight	30kDa
NCBI Official Full Name	apolipoprotein D
NCBI Official Synonym Full Names	apolipoprotein D
NCBI Official Symbol	APOD
NCBI Protein Information	apolipoprotein D
UniProt Protein Name	Apolipoprotein D
UniProt Gene Name	**APOD**
UniProt Synonym Gene Names	Apo-D; ApoD
UniProt Entry Name	APOD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/apolipoprotein-d-apod-antibody-clone-apod-3412-immunohistochemistry-elisa/215461