

Mouse anti-Human LRPAP1 Monoclonal Antibody | anti-LRPAP1 antibody

Anti-LRPAP1 Antibody, Mouse Monoclonal

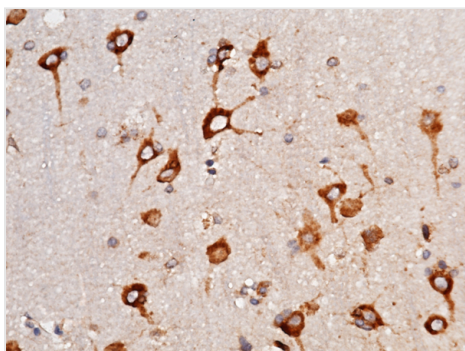
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255323	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

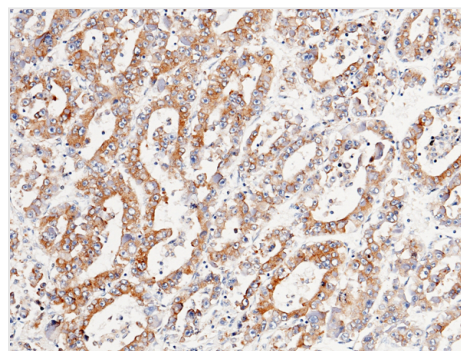
LRPAP1; Monoclonal Antibody; Anti-LRPAP1 Antibody; Mouse Monoclonal; LRPAP1 Antibody; Mouse MAb; low density lipoprotein receptor-related protein associated protein 1; Anti-A2MRAP Antibody; Anti-A2RAP Antibody; Anti-alpha-2-MRAP Antibody; Anti-HBP44 Antibody; Anti-MRAP Antibody; Anti-MYP23 Antibody; Anti-RAP Antibody; anti-LRPAP1 antibody

PRODUCT SPECIFICATIONS

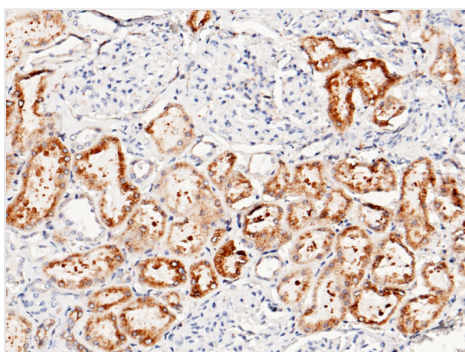
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	003
Specificity	Human LRPAP1. No cross-reactivity in ELISA with Mouse LRPAP1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LRPAP1 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Human LRPAP1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a mouse immunized with purified, recombinant Human LRPAP1 (rh LRPAP1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

**IHC (Immunohistochemistry)**

Immunochemical staining of human LRPAP1 in human brain with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human LRPAP1 in human hepatoma with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human LRPAP1 in human kidney with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to nephric tubule.

ADDITIONAL INFORMATION

Related Product Information for anti-LRPAP1 antibody

Receptor-associated protein (RAP) is a molecular chaperone for low-density lipoprotein receptor-related protein (LRP), which plays a key role in cholesterol metabolism. The lipoprotein receptor-related protein (LRP) is an endocytic receptor for several ligands, such as alpha2-macroglobulin (alpha2 M) and apolipoprotein E. LRP is involved in the clearance of lipids from the bloodstream and is expressed in the atherosclerotic plaque. The LRP-associated protein (LRPAP in humans, RAP in mice) acts as a chaperone protein, stabilizing the nascent LRP peptide in the endoplasmic reticulum and Golgi complex. Alpha-2-macroglobulin receptor-associated protein, also known as low-density lipoprotein receptor-related protein-associated protein 1, RAP, and LRPAP1, is a 39 kDa protein and a member of the alpha-2-MRAP family. It is a receptor antagonist that interacts with several members of the low-density lipoprotein (LDL) receptor gene family. Upon binding to these receptors, LRPAP1 inhibits all ligand interactions with the receptors. LRPAP1 is present on the cell surface forming a complex with the alpha-2-macroglobulin receptor heavy and light chains. It binds with LRP1B and the binding is followed by internalization and degradation. LRPAP1 interacts with LRP1/alpha-2-macroglobulin receptor and LRP2 (previously called glycoprotein 330) and may be involved in the pathogenesis of membrane glomerular nephritis. LRPAP1 together with LRP2 forms the Heymann nephritis antigenic complex. LRP2 is expressed in epithelial cells of the thyroid, where it can serve as a receptor for the protein thyroglobulin. Intron 5 insertion/deletion polymorphism of RAP gene (LRPAP1) has been implicated in other diseases sharing etiology with gallstone disease (GSD). The LRPAP1 insertion/deletion polymorphism influences cholesterol homeostasis and may confer risk for gallstone disease and gallbladder carcinoma (GBC) incidence usually parallels with the prevalence of cholelithiasis. The genetic variations at the LRPAP1 locus may modulate Alzheimer's disease (AD) phenotype beyond risk for disease. Also, the variation in the LRPAP1 gene could contribute to the risk of developing an early episode of myocardial infarction (MI).

References	Gonzalez P, et al. (2002) Variation in the lipoprotein receptor-related protein, alpha2-macroglobulin and lipoprotein receptor-associated protein genes in relation to plasma lipid levels and risk of early myocardial infarction. Coron Artery Dis. 13(5): 251-4. Schutte DL, et al. (2003) A LRPAP1 intronic insertion/deletion polymorphism and phenotypic variability in Alzheimer disease. Res Theory Nurs Pract. 17(4): 301-19. Pandey SN, et al. (2006) Lipoprotein receptor associated protein (LRPAP1) insertion/deletion polymorphism: association with gallbladder cancer susceptibility. Int J Gastrointest Cancer. 37(4): 124-8. Dixit M, et al. (2006) Association of low density lipoprotein receptor related protein-associated protein (LRPAP1) gene insertion/deletion polymorphism with gallstone disease. J Gastroenterol Hepatol. 21(5): 847-9.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505021
NCBI GeneID	4043
NCBI Accession #	NP_002328.1
NCBI GenBank Nucleotide #	NM_002337.3
UniProt Accession #	P30533 ; Q2M310 ; Q53HQ3 ; Q53HS6 ; D3DVR9
Molecular Weight	160,000
NCBI Official Full Name	alpha-2-macroglobulin receptor-associated protein
NCBI Official Synonym Full Names	low density lipoprotein receptor-related protein associated protein 1
NCBI Official Symbol	LRPAP1
NCBI Official Synonym Symbols	RAP; MRAP; A2RAP; HBP44; A2MRAP
NCBI Protein Information	alpha-2-macroglobulin receptor-associated protein; alpha-2-MRAP; lipoprotein receptor associated protein; alpha-2-macroglobulin receptor-associated protein 1; low density lipoprotein receptor-related protein-associated protein 1; low density lipoprotein-r
UniProt Protein Name	Alpha-2-macroglobulin receptor-associated protein
UniProt Gene Name	LRPAP1
UniProt Synonym Gene Names	A2MRAP; Alpha-2-MRAP; RAP
UniProt Entry Name	AMRP_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/lrpap1-antibody-clone-003-immunohistochemistry-elisa/255323>