

# Human LRPAP antibody

Catalog Number: ATGA0321

## PRODUCT INFORMATION

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**Catalog number**

ATGA0321

**Clone No.**

AT8G8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P30533

**NCBI Accession No.**

NP\_002328

**Alternative Names**

alpha-2-macroglobulin receptor-associated protein, A2MRAP, A2RAP, HBP44, MGC138272, MRAP, RAP

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human LRPAP1 (35-357aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

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. LRPAP1 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 cell surface forming a complex with the alpha-2-macroglobulin receptor heavy and light chains. LRPAP1 is present on the cell surface, where it is an effective inhibitor of ligand binding to the kidney glycoprotein 330 (gp330) yet it is most abundant in the endoplasmic reticulum lumen and may function in receptor folding and/or trafficking.

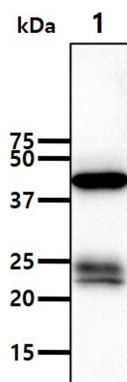
### General References

Kounnas. M.Z., et al. (1992) J Biol Chem 267(29):21162-21166.

Bu. G., et al. (1995) EMBO J 14(10):2269-2280.

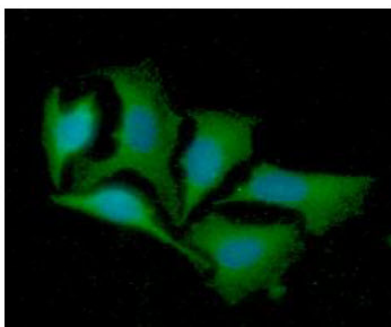
## DATA

### Western blot analysis (WB)



The tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human LRPAP antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Mouse kidney tissue lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of LRPAP in HeLa cells. The cell was stained with ATGA0321 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).