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**Research Use Only. Not for diagnostic or therapeutic use.**

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

## EB06118 - Goat Anti-ATP6IP2 / Renin receptor Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** embryonic liver differentiation factor 10, ATPase, H<sup>+</sup> transporting, lysosomal interacting protein 2, XMRE, MSTP009, MRXE, MGC99577, HT028, ELDF10, ATPase, H<sup>+</sup> transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9, vacuolar ATP synthase membrane sector associated protein M8-9, ATPase membrane sector associated protein M8-9, V-ATPase M8.9 subunit, renin receptor, ATP6M8-9, APT6M8-9, M8-9, ATPase, H<sup>+</sup> transporting, lysosomal interacting protein 2, ATP6IP2, ATP6AP2

**Official Symbol:** ATP6AP2

**Accession Number(s):** NP\_005756.2

**Human GeneID(s):** [10159](#)

**Non-Human GeneID(s):** 70495 (mouse)

### Immunogen

Peptide with sequence C-SIIYRMTNQKIRMD, from the C Terminus of the protein sequence according to NP\_005756.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.

**Western blot:** Approx 37kDa band observed in Human Kidney lysates (calculated MW of 39.0kDa according to NP\_005756.2). Recommended for use at 0.25-1µg/ml

**IHC:** This antibody has been successfully used for human placenta in the following paper: Pringle et al, J Renin Angiotensin Aldosterone Syst. 2010 Aug 11, PMID: 20702505.

### Species Reactivity

**Tested:** Human, Mouse, Rat

**Expected from sequence similarity:** Human, Mouse, Rat, Cow

### Specific References

This antibody has been successfully used in the following papers:

Pringle KG, Zakar T, Yates D, Mitchell CM, Hirst JJ, Lumbers ER.

Molecular evidence of a (pro)renin/(pro)renin receptor system in human intrauterine tissues in pregnancy and its association with PGHS-2.

J Renin Angiotensin Aldosterone Syst. 2010 Aug 11.

**PMID:** 20702505

The goat polyclonal antibody used in the following papers was manufactured by us: Kaneshiro Y, Ichihara A, Sakoda M, Takemitsu T, Nabi AH, Uddin MN, Nakagawa T, Nishiyama A, Suzuki F, Inagami T, Itoh H.

Slowly progressive, angiotensin II-independent glomerulosclerosis in human (pro)renin receptor-transgenic rats.

J Am Soc Nephrol. 2007 Jun;18(6):1789-95.

**PMID:** 17494887

Advani A, Kelly DJ, Cox AJ, White KE, Advani SL, Thai K, Connelly KA, Yuen D, Trogadis J, Herzenberg AM, Kuliszewski MA, Leong-Poi H, Gilbert RE.

The (Pro)renin receptor: site-specific and functional linkage to the vacuolar H<sup>+</sup>-ATPase in the kidney.

Hypertension. 2009 Aug;54(2):261-9.

**PMID:** 19546380

Scheffé JH, Neumann C, Goebel M, Danser J, Kirsch S, Gust R, Kintscher U, Unger T, Funke-Kaiser H.

Prorenin engages the (pro)renin receptor like renin and both ligand activities are unopposed by aliskiren.

J Hypertens. 2008 Sep;26(9):1787-94.

**PMID:** 18698213



EB06118 staining (0.5 $\mu$ g/ml) of Human Kidney lysate (RIPA buffer, 35 $\mu$ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.