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Certificate of Analysis and Data Sheet

Goat Anti-ATP6IP2 / Renin Receptor

With HRP-conjugated Secondary Antibody

Catalog No.

ER-14-0202

Accession Number

NP_005756.2

Target Protein

Principal Names: embryonic liver differentiation factor 10, ATPase, H⁺ transporting, lysosomal interacting protein 2, XMRE, MSTP009, MRXE, MGC99577, HT028, ELDF10, ATPase, H⁺ 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⁺ 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.

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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⁺-ATPase in the kidney. Hypertension. 2009 Aug;54(2):261-9.

PMID: 19546380

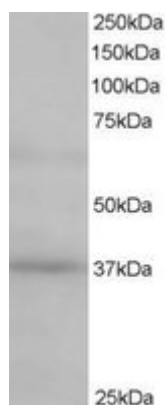
Scheffe JH, Neumann C, Goebel M, Danser J, Kirsch S, Gust R, Kintscher U, Unger T, Funke-Kaiser H. Prorenin engages the (pro)renin receptor like renin and both ligand activities are unopposed by aliskiren. J Hypertens. 2008 Sep;26(9):1787-94.

PMID: 18698213

Secondary Antibody Applications

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

Image



ER-14-0202 staining (0.5µg/ml) of Human Kidney lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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