

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Renin R in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Renin R Asn17-Glu302 Accession # O75787
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Renin R (Renin Receptor; also ATPase H⁺-transporting lysosomal accessory/interacting protein 2, M8.9 and ELDF10) is a 39-45 kDa protein that belongs to no known family. It is expressed on the surface of macrophages, vascular smooth muscle cells, renal mesangial cells and T cells. Renin R has at least two functions. First, it binds both renin and prorenin, promoting the conversion of angiotensinogen to angiotensin I. Second, its ligation induces PAI-1 synthesis. Mature human Renin R is a type I transmembrane protein 334 amino acids (aa) in length. It contains a 286 aa extracellular region (aa 17-302) and a 27 aa cytoplasmic tail. It is believed to form homodimers. Potential isoforms exist. One termed M8.9 shows a deletion of aa 1-252 and constitutes a component of the vacuolar proton ATPase. Two others show an alternate start site at Met77, and a deletion of aa 101-132. Over aa 17-302, the human Renin R shares 95% aa identity with the mouse Renin R.

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