

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human and mouse Renin R in Western blots.                                                                                                                                                                                                                           |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Renin R<br>Asn17-Glu302<br>Accession # O75787                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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<sup>+</sup>-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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