

## DESCRIPTION

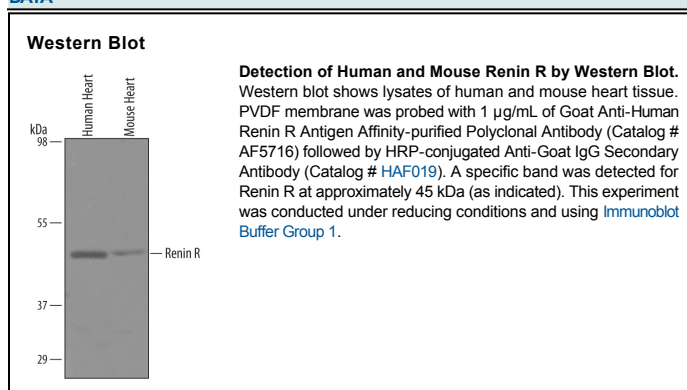
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse Renin R in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Renin R Asn17-Glu302 Accession # O75787
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.