

Human/Mouse Renin R Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5716

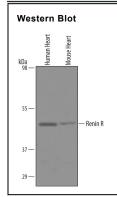
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse Renin R in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human Renin R Asn17-Glu302 Accession # O75787	
Formulation	Lyophilized from a 0.2 µm filtered 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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human and Mouse Renin R by Western Blot. Western blot shows lysates of human and mouse heart tissue. PVDF membrane was probed with 1 μg/mL of Goat Anti-Human Renin R Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5716) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Renin R at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	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 $^{\circ}$ C		
	"Small pack size (-SP) is snipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

