

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Renin 1 Propeptide in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with the mature form of mouse Renin 1, recombinant human Renin, recombinant mouse (rm) Cathepsin D, or rmCathe
Source	Monoclonal Rat IgG _{2A} Clone # 434717
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Renin 1 Leu22-Arg402 Accession # P06281
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

Mouse Renin is a secreted, 42-47 kDa glycosylated member of the peptidase A1 family. It is an aspartyl protease that cleaves angiotensinogen to form angiotensin I. In mouse, there are two genes that code for Renin. One is in the submandibular gland and the other is in the kidney. The two mature Renin molecules are 95% amino acid (aa) identical. Renal Renin (Renin-1) is synthesized as a 381 aa proform (aa 22-402). In the kidney, pro-Renin is proteolytically cleaved after Thr71 to generate a mature enzyme. Mouse pro-Renin shares 70% and 85% aa sequence identity with human and rat pro-Renin, respectively.

PRODUCT SPECIFIC NOTICES

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