

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Renalase in direct ELISAs and Western blots.                                                                                                                                                                                                                  |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Renalase<br>Ala2-Ile342<br>Accession # NP_001026879                                                                                                                                                                               |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 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

Renalase is a novel, 35-37 kDa FAD-dependent amine oxidase that is secreted primarily by glomerular and renal tubule epithelium. It presumably degrades catecholamines and lowers blood pressure by decreasing heart rate and cardiac contractility. In addition to renal cells, Renalase is produced by skeletal and cardiac muscle fibers. The human Renalase precursor is 342 amino acids (aa) in length. It contains an FAD binding domain (aa 4-35) that overlaps a signal sequence (aa 1-17), followed by an amine oxidase segment (aa 75-339). Renalase circulates as both a monomer (from kidney) and homodimer (from heart). There is one potential splice variant that shows a 22 aa substitution for aa 294-342. Over aa 2-342, human Renalase shows 72% aa identity to mouse Renalase.

#### PRODUCT SPECIFIC NOTICES

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