

## DESCRIPTION

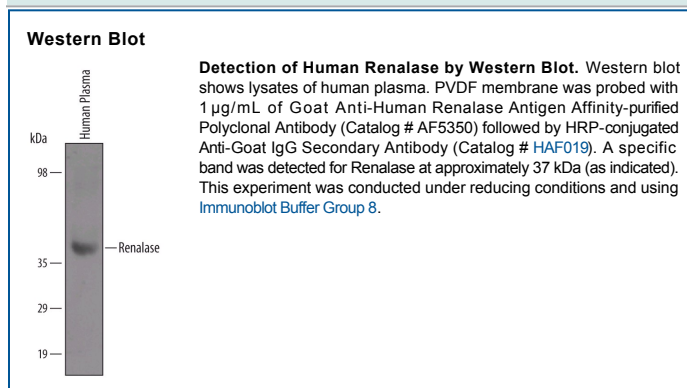
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Renalase in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Renalase Ala2-Ile342 Accession # NP_001026879
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

## 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

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.