**Species Reactivity**
Human

**Specificity**
Detects human Procalcitonin in direct ELISAs and Western blots.

**Source**
Polyclonal Sheep IgG

**Purification**
Antigen Affinity-purified

**Immunogen**
E. coli-derived recombinant human Procalcitonin
Ala26-Gly117 (Asn57Asp)
Accession # P01258

**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 either lyophilized or 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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
<td>See Below</td>
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**Data**

Detection of Human Procalcitonin by Western Blot. Western blot shows lysates of human thyroid cancer tissue. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Human Procalcitonin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8350) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Procalcitonin at approximately 15-16 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 °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**
Human Procalcitonin (CALCA and Calcitonin) is 141 aa in length member of the calcitonin family. Precursor protein is cleaved into a propeptide and the following 2 chains: Calcitonin (aa 85-116) and Katacalcin (aa 121-141). Antigen used to develop this antibody is correspondent to the propeptide and Calcitonin part of the precursor molecule. Secreted Calcitonin is known to cause a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Over aa 26-117, human Procalcitonin shares 80% aa identity with mouse Procalcitonin.