

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Procalcitonin in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 919510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Procalcitonin Ala26-Gly117 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.

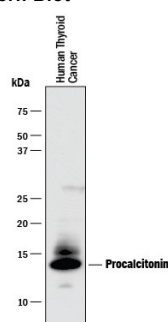
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below

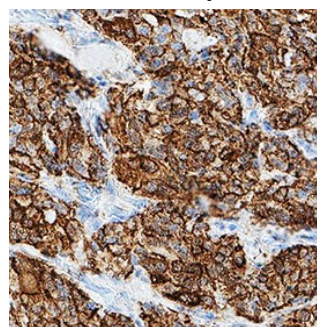
DATA

Western Blot



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 Mouse Anti-Human Procalcitonin Monoclonal Antibody (Catalog # MAB8350) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Procalcitonin at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Procalcitonin in Human Thyroid. Procalcitonin was detected in immersion fixed paraffin-embedded sections of human thyroid using Mouse Anti-Human Procalcitonin Monoclonal Antibody (Catalog # MAB8350) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and cell membranes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> 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 amino acids (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 Katalcacin (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.