

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Calcitonin in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 2413G
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Human Calcitonin synthetic peptide Accession # P01258
<b>Formulation</b>	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.

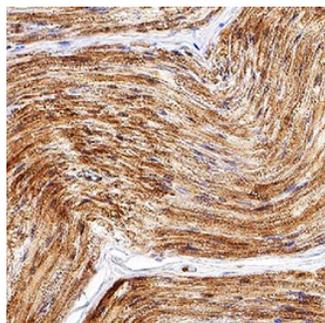
#### APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	3-25 µg/mL	See Below

#### DATA

##### Immunohistochemistry



**Calcitonin in Human Dorsal Root Ganglion.** Calcitonin was detected in immersion fixed paraffin-embedded sections of human dorsal root ganglion using Rabbit Anti-Human Calcitonin Monoclonal Antibody (Catalog # MAB83503) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). 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. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <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

Human Calcitonin (CALCA, Calcitonin) is a 32 aminoacids (aa) protein formed by the proteolytic cleavage of a larger prepropeptide, which is the product of the CALC1 gene. Precursor protein (a 141 aa in length member of the calcitonin family) is cleaved into a propeptide and the following 2 chains: Calcitonin (aa 85-116) and Katalcalcin (aa 121-141). Antigen used to develop this antibody corresponds to the mature Calcitonin cleaved peptide. 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.