Human CGRP2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 1057815

Catalog Number: MAB11323

DESCRIPTION

Species Reactivity	Human
Specificity	Detects Human Procalcitonin in direct ELISA.
Source	Monoclonal Mouse IgG_{2A} Clone # 1057815
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human CGRP synthetic peptide (Tocris Catalog # 3012) Accession # P10092
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
Immunocytochemistry	8-25 µg/mL	Immersion fixed TT human medullary thyroid cancer cell line (positive) and absent in THP-1 human acute monocytic leukemia cell line (negative)
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human liver
ELISA	This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human CGRP2 Monoclonal Antibody (Catalog # MAB11382).This product is intended for assay development on various assay platforms requiring antibody pairs.	

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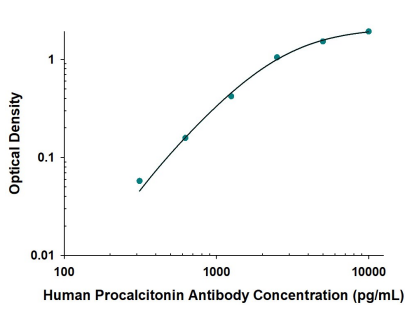
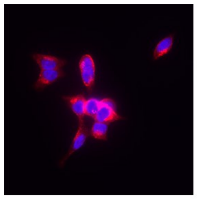
DATA

ELISA

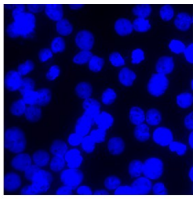


Human CGRP2 ELISA Standard Curve. Recombinant Human CGRP2 protein was serially diluted 2-fold and captured by Mouse Anti-Human CGRP2 Monoclonal Antibody (Catalog # MAB11382) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Human Procalcitonin Monoclonal Antibody (Catalog # MAB11323) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

Immunocytochemistry



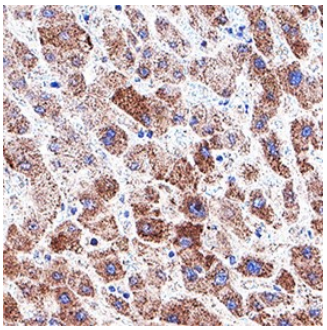
TT (Positive) cells



THP-1 (Negative) cells

Detection of Procalcitonin in TT cell line (positive) and absent in THP-1 cell line (negative). Procalcitonin was detected in immersion fixed TT human medullary thyroid cancer cell line (positive) and absent in THP-1 human acute monocytic leukemia cell line (negative) using Mouse Anti-Human Procalcitonin Monoclonal Antibody (Catalog # MAB11323) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surface. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



Detection of Procalcitonin in Human Liver. Procalcitonin was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Procalcitonin Monoclonal Antibody (Catalog # MAB11323) 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 VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. 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.** • 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

Calcitonin gene-related peptide or CGRP is a 37-amino acid neuropeptide formed by alternative splicing of the calcitonin/CGRP gene. CGRP is a member of the calcitonin family of peptides consisting of calcitonin, amylin, adrenomedullin, adrenomedullin 2 (intermedin) and calcitonin-receptor-stimulating peptide. CGRP is produced in both peripheral and central neurons and induces vasodilation of a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role.

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