R&D SYSTEMS
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Human Corin Antibody

Monoclonal Rat IgG_{2A} Clone # 231443

Catalog Number: MAB2209

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Corin in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG_{2A} Clone # 231443
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Corin Ser67-Asn1042 Accession # Q9Y5Q5
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 as a 0.2 µm filtered solution in PBS.

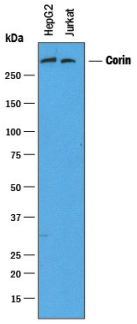
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

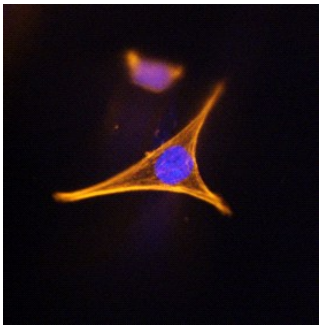
DATA

Western Blot



Detection of Human Corin by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 1 µg/mL of Rat Anti-Human Corin Monoclonal Antibody (Catalog # MAB2209) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Corin at approximately 270 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Corin in HK2 Human Cell Line. Corin was detected in immersion fixed HK2 human kidney proximal tubule cell line using Rat Anti-Human Corin Monoclonal Antibody (Catalog # MAB2209) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to plasma membranes. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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

Corin is a type II transmembrane serine protease expressed predominantly in cardiomyocytes. It converts pro arterial natriuretic peptide (pro-ANP) to ANP.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956