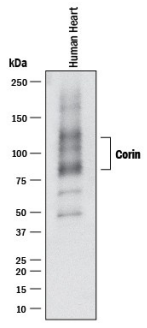


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Corin in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Corin Ser67-Asn1042 Accession # Q9Y5Q5
<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	
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the Technical Information section on our website.	
	<b>Recommended Concentration</b> <b>Sample</b>
<b>Western Blot</b>	1 µg/mL      See Below
<b>Immunohistochemistry</b>	0.3-15 µg/mL      See Below
<b>ELISA</b>	This antibody functions as an ELISA detection antibody when paired with Rat Anti-Human Corin Monoclonal Antibody (Catalog # <a href="#">MAB2209</a> ).  <i>This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human Corin DuoSet ELISA Kit (Catalog # <a href="#">DY2209</a>) for convenient development of a sandwich ELISA or the Human Corin Quantikine ELISA Kit (Catalog # <a href="#">DCRN00</a>) for a complete optimized ELISA.</i>

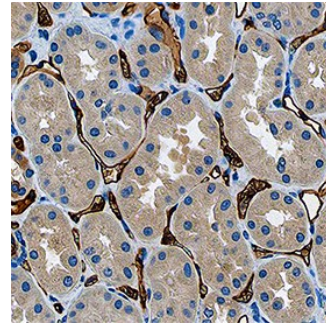
**DATA**

**Western Blot**



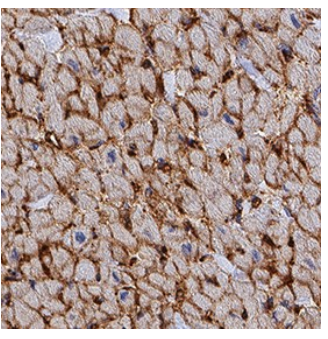
**Detection of Human Corin by Western Blot.** Western blot shows lysates of human heart tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Corin Antigen Affinity-purified Polyclonal Antibody (Catalog # [af2209](#)) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [HAF017](#)). A specific band was detected for Corin at approximately 85 and 130 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

**Immunohistochemistry**



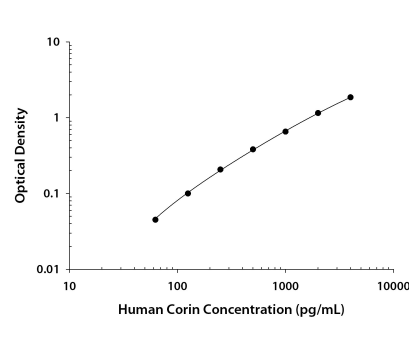
**Corin in Human Liver.** Corin was detected in immersion fixed paraffin-embedded sections of human liver using Goat Anti-Human Corin Antigen Affinity-purified Polyclonal Antibody (Catalog # [AF2209](#)) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # [VC004](#)). 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 endothelial cells in canaliculi. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

**Immunohistochemistry**



**Corin in Human Heart.** Corin was detected in immersion fixed paraffin-embedded sections of human heart using Goat Anti-Human Corin Antigen Affinity-purified Polyclonal Antibody (Catalog # [AF2209](#)) at 0.3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # [VC004](#)). 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 in cardiomyocytes. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

**ELISA**



**Human Corin ELISA Standard Curve.** Recombinant Human Corin protein was serially diluted 2-fold and captured by Rat Anti-Human Corin Monoclonal Antibody (Catalog # [MAB2209](#)) coated on a Clear Polystyrene Microplate (Catalog # [DY990](#)). Goat Anti-Human Corin Antigen Affinity-purified Polyclonal Antibody (Catalog # [AF2209](#)) 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](#)).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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

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