

# **Mouse Collectrin Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4965

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Collectrin in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant human Collectrin is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Collectrin Glu15-lle144 Accession # Q9ESG4		
Formulation	ion 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.		

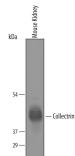
#### APPLICATIONS

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	5-15 μg/mL	See Below
Simple Western	10 μg/mL	See Below

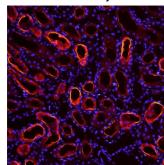
#### DATA

### Western Blot



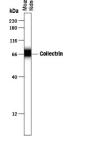
Detection of Mouse Collectrin by Western Blot. Western blot shows lysates of mouse kidney tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse Collectrin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4965) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Collectrin at approximately 43 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

#### Immunohistochemistry



Collectrin in Mouse Kidney. Collectrin was detected in perfusion fixed frozen sections of mouse kidney using Sheep Anti-Mouse Collectrin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4965) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to convoluted tubules. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.





Detection of Mouse Collectrin by Simple Western<sup>TM</sup>. Simple Western lane view shows lysates of mouse kidney tissue, loaded at 0.2 mg/mL. A specific band was detected for Collectrin at approximately 69 kDa (as indicated) using 10 μg/mL of Sheep Anti-Mouse Collectrin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4965) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

#### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 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 ma

#### 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.

Rev. 2/6/2018 Page 1 of 2





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### BACKGROUND

Collectrin (also Transmembrane protein 27) is a 37-43 kDa member of the MEM27 family of proteins. It is expressed on pancreatic β-cells where it regulates insulin secretion, and on renal tubular epithelium where it mediates amino acid transport. Mature mouse Collectrin is a 208 amino acid (aa) type I transmembrane glycoptotein. It contains a 127 aa extracellular region (aa 15-141) and a 60 aa cytoplasmic domain (aa 163-222). Collectrin dimerizes on the cell surface, and undergoes proteolytic cleavage to generate a 26 kDa soluble fragment. Over aa 15-144, mouse Collectrin shares 92% and 86% aa identity with rat and human Collectrin, respectively.

Rev. 2/6/2018 Page 2 of 2

