Mouse Uromodulin Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5175

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Uromodulin in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human Uromodulin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Uromodulin Ser24-Ala618 Accession # Q91X17
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

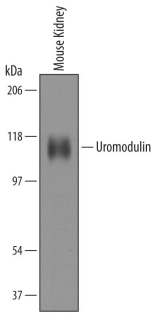
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

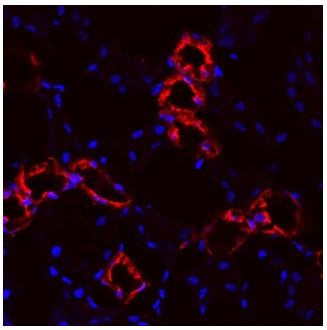
DATA

Western Blot



Detection of Mouse Uromodulin by Western Blot. Western blot shows lysates of mouse kidney tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse Uromodulin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5175) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Uromodulin at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



Uromodulin in Mouse Kidney. Uromodulin was detected in immersion fixed frozen sections of mouse kidney using Sheep Anti-Mouse Uromodulin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5175) at 10 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 tubule epithelial cells. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

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 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

Uromodulin (also Tamm-Horsfall glycoprotein or THP) is a 105-120 kDa urinary glycoprotein. It is secreted by renal tubule epithelium, acts as a binding protein for IL-1, TNF-α and C1q, activates resting monocytes, and promotes neutrophil phagocytosis. Uromodulin forms high molecular weight oligomers that line the kidney tubules. Mouse Uromodulin is GPI-linked. Its proprecursor is 619 amino acids (aa) in length. It contains three EGF-like domains (aa 28-148), a ZP domain that mediates oligomerization (aa 335-590), and a cleavable C-terminal propeptide (aa 619-642). There are multiple splice variants. One shows an alternate start site at Met343, and there are two substitutions, a 17 aa substitution for aa 601-642, and a 166 aa substitution for aa 441-642. Over aa 25-618, mouse Uromodulin shares 78% and 89% aa identical to human and rat Uromodulin, respectively.

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