

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Uromodulin in Western blots. In Western blots, approximately 25% cross-reactivity with recombinant mouse Uromodulin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Uromodulin isoform 1 Asp25-Ser614 Accession # P07911
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human Uromodulin

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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 an 85-95 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. Human Uromodulin is GPI-linked. Its proprecursor is 616 amino acids (aa) in length. It contains three EGF-like domains (aa 28-149), a ZP domain that mediates oligomerization (aa 334-589) and a cleavable C-terminal propeptide (aa 615-640). There are multiple splice variants. One shows a deletion of aa 67-199, a second shows a nine aa substitution for aa 609-640, a third shows a Pro substitution for aa 205-234 and a fourth shows a 66 aa substitution for aa 613-640. Over aa 25-614, human Uromodulin is 78% aa identical to mouse Uromodulin.