

Uromodulin (aa525-536) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3814a**Specification**

Uromodulin (aa525-536) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P07911
Other Accession	NP_003352.2 , 7369
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	69761

Uromodulin (aa525-536) Antibody (internal region) - Additional Information**Gene ID** 7369**Other Names**

Uromodulin, Tamm-Horsfall urinary glycoprotein, THP, Uromodulin, secreted form, UMOD

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Uromodulin (aa525-536) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Uromodulin (aa525-536) Antibody (internal region) - Protein Information**Name** UMOD**Function**

[Uromodulin]: Functions in biogenesis and organization of the apical membrane of epithelial cells of the thick ascending limb of Henle's loop (TALH), where it promotes formation of complex filamentous gel-like structure that may play a role in the water barrier permeability (Probable). May serve as a receptor for binding and endocytosis of cytokines (IL-1, IL-2) and TNF (PubMed:3498215). Facilitates neutrophil migration across renal epithelia (PubMed:20798515).

Cellular Location

Apical cell membrane; Lipid-anchor, GPI-anchor. Basolateral cell membrane; Lipid-anchor, GPI-anchor. Cell projection, cilium membrane. Note=Only a small fraction sorts to the basolateral pole of tubular epithelial cells compared to apical localization (PubMed:22776760). Secreted into urine after cleavage (PubMed:18375198, PubMed:26811476). Colocalizes with NPHP1 and KIF3A (PubMed:20172860).

Tissue Location

Expressed in the tubular cells of the kidney. Most abundant protein in normal urine (at protein level). Synthesized exclusively in the kidney. Expressed exclusively by epithelial cells of the thick ascending limb of Henle's loop (TALH) and of distal convoluted tubule lumen.

Uromodulin (aa525-536) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Uromodulin (aa525-536) Antibody (internal region) - Images

AF3814a (0.5 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Uromodulin (aa525-536) Antibody (internal region) - Background

Reported variants represent identical protein: NP_001008390.1, NP_003352.2

Uromodulin (aa525-536) Antibody (internal region) - References

Uromodulin gene variant is associated with type 2 diabetic nephropathy. Ahluwalia TS, Lindholm E,

Groop L, Melander O. J Hypertens. 2011 Sep;29(9):1731-4. PMID: 21738052