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# UMOD / Uromodulin Antibody (Val378)

**Rabbit Polyclonal Antibody**
**Catalog # ALS16093**

## Specification

### UMOD / Uromodulin Antibody (Val378) - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | P07911 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **70kDa KDa** |

### UMOD / Uromodulin Antibody (Val378) - Additional Information

**Gene ID** 7369

**Other Names**
Uromodulin, Tamm-Horsfall urinary glycoprotein, THP, Uromodulin, secreted form, UMOD

**Target/Specificity**
Human UMOD / Uromodulin

**Reconstitution & Storage**
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**
UMOD / Uromodulin Antibody (Val378) is for research use only and not for use in diagnostic or therapeutic procedures.

### UMOD / Uromodulin Antibody (Val378) - 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:<a href="http://www.uniprot.org/citations/3498215" target="_blank">3498215</a>). Facilitates neutrophil migration across renal epithelia (PubMed:<a href="http://www.uniprot.org/citations/20798515" target="_blank">20798515</a>).

**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.

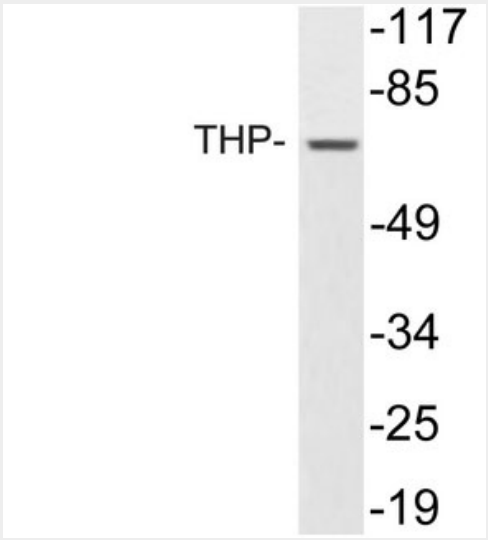
**Volume**
50 µl

## UMOD / Uromodulin Antibody (Val378) - Protocols

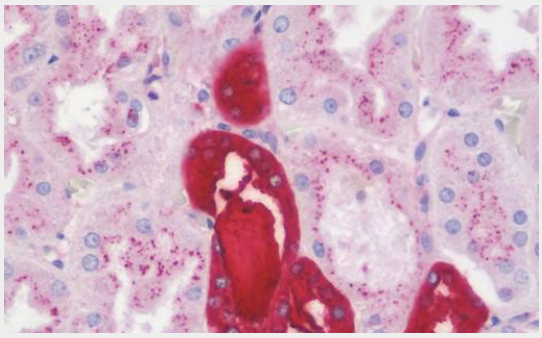
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## UMOD / Uromodulin Antibody (Val378) - Images




Western blot of UMOD (V378) pAb in extracts from K562 cells.



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Anti-UMOD / Uromodulin antibody IHC staining of human kidney.

**UMOD / Uromodulin Antibody (Val378) - Background**

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 providing the water barrier permeability. May serve as a receptor for binding and endocytosis for cytokines (IL-1, IL-2) and TNF. Facilitates neutrophil migration across renal epithelial.

**UMOD / Uromodulin Antibody (Val378) - References**

Pennica D.,et al.Science 236:83-88(1987).
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Hart T.C.,et al.J. Med. Genet. 39:882-892(2002).
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Martin J.,et al.Nature 432:988-994(2004).