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UMOD / Uromodulin Antibody (clone 10.32)

Mouse Monoclonal Antibody
Catalog # ALS12525

Specification

UMOD / Uromodulin Antibody (clone 10.32) - Product Information

Application	**IHC**
Primary Accession	P07911
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**70kDa KDa**

UMOD / Uromodulin Antibody (clone 10.32) - Additional Information

Gene ID 7369

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

Target/Specificity
Anti-human Tamm-Horsfall protein (THP) is a monoclonal antibody which reacts with an epitope of the urinary mucoprotein. Tamm-Horsfall protein is a glycoprotein of approximately 80 kD containing up to 25% carbohydrate by weight.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
UMOD / Uromodulin Antibody (clone 10.32) is for research use only and not for use in diagnostic or therapeutic procedures.

UMOD / Uromodulin Antibody (clone 10.32) - 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).

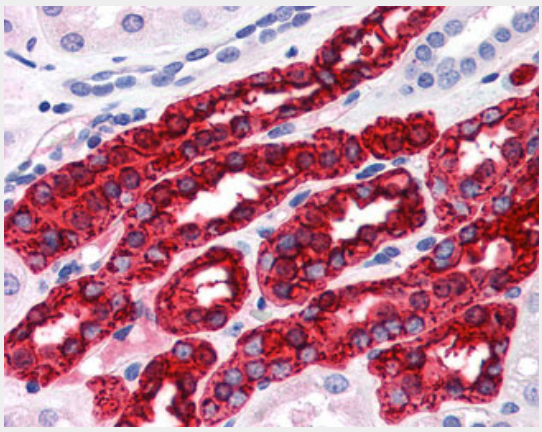
Tissue Location
Expressed in the tubular cells of the kidney. Most abundant protein in normal urine (at protein level). Synthesized exclusively in the kidney. Expressed exclusively by epithelial cells of the thick ascending limb of Henle's loop (TALH) and of distal convoluted tubule lumen.

UMOD / Uromodulin Antibody (clone 10.32) - 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 (clone 10.32) - Images



Anti-UMOD / Uromodulin antibody IHC of human kidney.

UMOD / Uromodulin Antibody (clone 10.32) - 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 (clone 10.32) - References

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Hart T.C.,et al.J. Med. Genet. 39:882-892(2002).
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