THP Rabbit pAb

CatalogNo: YT4644

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA,IHC

MW
- 70kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-300
ELISA 1:2000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human THP. AA range:329-378
Specificity	THP Polyclonal Antibody detects endogenous levels of THP protein.

Target Information

Gene name UMOD

Protein Name Uromodulin

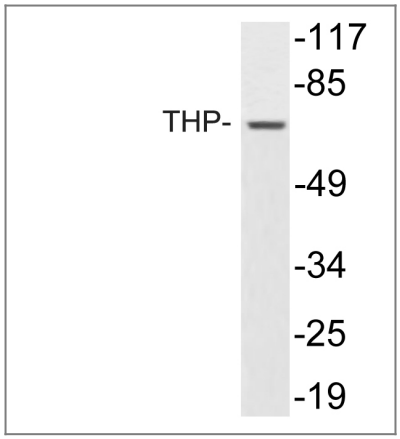
Organism	Gene ID	UniProt ID
Human	7369;	P07911;
Mouse		Q91X17;
Rat		P27590;

Cellular Localization Apical cell membrane ; Lipid-anchor, GPI-anchor . Basolateral cell membrane ; Lipid-anchor, GPI-anchor . Cell projection, cilium membrane . 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). .; [Uromodulin, secreted form]: Secreted . Detected in urine. .

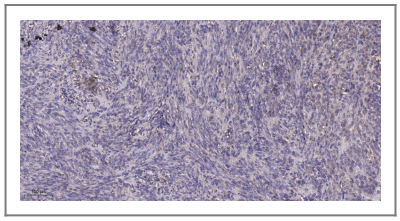
Tissue specificity Expressed in the tubular cells of the kidney. Most abundant protein in normal urine (at protein level). Synthesized exclusively in the kidney. Expressed exclusively by epithelial cells of the thick ascending limb of Henle's loop (TALH) and of distal convoluted tubule lumen.

Function Disease:Defects in UMOD are a cause of glomerulocystic kidney disease with hyperuricemia and isosthenuria [MIM:609886]. Glomerulocystic kidney disease (GCKD) and medullary cystic disease/familial juvenile hyperuricemic nephropathy (MCKD/HNFJ) are two distinct renal disorders that share some common clinical features. The former is characterized by a cystic dilatation of Bowman's space and a collapse of glomerular tuft. Familial GCKD can be associated with either hypoplastic or normal sized kidneys. A GCKD clinical variant presents the association with hyperuricemia due to low fractional excretion of uric acid and severe impairment of urine concentrating ability that are reminiscent of MCKD/HNFJ.,Disease:Defects in UMOD are the cause of familial juvenile hyperuricemic nephropathy (HNFJ) [MIM:162000]. HNFJ is a heritable autosomal dominant renal disease characterized by juvenil onset of hyperuricaemia, polyuria, progressive renal failure, and gout. The disease is associated with interstitial pathological changes resulting in fibrosis.,Disease:Defects in UMOD are the cause of medullary cystic kidney disease 2 (MCKD2) [MIM:603860]. MCKD2 and HNFJ constitute a group of heritable renal diseases with a common mode of transmission (autosomal dominant) and shared features including polyuria, hyperuricaemia, progressive renal failure, and gout. Both diseases are associated with interstitial pathological changes resulting in fibrosis. While corticomedullary cysts are well documented in MCKD2, their presence in HNFJ is not well documented. The primary clinical features of MCKD2 and HNFJ vary in presence and severity, complicating the diagnosis of these conditions, particularly in milder cases. Both diseases are considered to be allelic diseases.,Function:Not known. May play a role in regulating the circulating activity of cytokines as it binds to IL-1, IL-2 and TNF with high affinity.,similarity:Contains 1 ZP domain.,similarity:Contains 3 EGF-like domains.,subcellular location:Secreted after cleavage in the urine.,tissue specificity:Synthesized by the kidneys and is the most abundant protein in normal human urine.,

Validation Data



Western blot analysis of lysate from K562 cells, using THP antibody.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

Orders:	order.cn@immunoway.com
Support:	support.cn@immunoway.com
Telephone:	400-8787-807(China)
Website:	http://www.immunoway.com.cn
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
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