

Datasheet: 8595-0054

Description:	SHEEP ANTI HUMAN TAMM HORSFALL GLYCOPROTEIN
Specificity:	TAMM HORSFALL GLYCOPROTEIN
Other names:	UROMUCOID
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/50 - 1/200
ELISA	▪			1/10,000 - 1/40,000
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	IgG fraction - liquid
Preparation	IgG fraction prepared by ammonium sulphate fractionation
Buffer Solution	Glycine buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 0.1% EACA 0.01% Benzamidine 1 mM EDTA
Immunogen	Purified human uromucodulin prepared from urine.
External Database Links	UniProt: P07911 Related reagents

Entrez Gene:

[7369](#) UMOD [Related reagents](#)

Specificity

Sheep anti Human Tamm Horsfall Glycoprotein antibody recognizes human Tamm Horsfall Protein (THP), also known as uromodulin ([Pennica *et al.* 1987](#)). THP was originally isolated from normal human urine ([Tamm *et al.* 1952](#)). THP is a 616 amino acid ~85 kDa glycoprotein synthesized by the kidney and is the most abundant urinary protein in healthy individuals ([Pennica *et al.* 1987](#)). THP forms the matrix of all urinary casts either alone (hyaline casts) or in association with cellular fragments and filtered proteins (granular casts), casts are indicative of a number of pathological states including glomerulonephritis and vasculitis ([Chambers *et al.* 1986](#)).

The specificity of sheep anti human Tamm Horsfall glycoprotein antibody has been confirmed by double diffusion against tamm horsfall glycoprotein and an independent known antibody against THP.

References

1. El-Achkar, T.M. *et al.* (2011) Tamm-Horsfall protein-deficient thick ascending limbs promote injury to neighboring S3 segments in an MIP-2-dependent mechanism. [Am J Physiol Renal Physiol. 300 \(4\): F999-1007.](#)
2. Hao, S. *et al.* (2011) Differential regulation of NFAT5 by NKCC2 isoforms in medullary thick ascending limb (mTAL) cells. [Am J Physiol Renal Physiol. 300: F966-75.](#)
3. Vekaria, R.M. *et al.* (2006) Immunolocalization of ectonucleotidases along the rat nephron. [Am J Physiol Renal Physiol. 290 \(2\): F550-60.](#)
4. El-Achkar, T.M. *et al.* (2013) Tamm-Horsfall protein translocates to the basolateral domain of thick ascending limbs, interstitium, and circulation during recovery from acute kidney injury. [Am J Physiol Renal Physiol. 304 \(8\): F1066-75.](#)
5. El-Achkar, T.M. *et al.* (2008) Tamm-Horsfall protein protects the kidney from ischemic injury by decreasing inflammation and altering TLR4 expression. [Am J Physiol Renal Physiol. 295 \(2\): F534-44.](#)
6. Nevo, N. *et al.* (2010) Renal phenotype of the cystinosis mouse model is dependent upon genetic background. [Nephrol Dial Transplant. 25: 1059-66.](#)
7. Venables, G. *et al.* (2011) Ghrelin receptors are expressed by distal tubules of the mouse kidney. [Cell Tissue Res. 346: 135-9.](#)
8. Rice, J.C. *et al.* (2002) Monocyte chemoattractant protein-1 expression correlates with monocyte infiltration in the post-ischemic kidney. [Ren Fail. 24: 703-23.](#)
9. Liu, S. *et al.* (2012) Autophagy plays a critical role in kidney tubule maintenance, aging and ischemia-reperfusion injury. [Autophagy. 8: 826-37.](#)
10. Saito, S. *et al.* (2011) Analysis of glial cell line-derived neurotrophic factor-inducible zinc finger protein 1 expression in human diseased kidney. [Hum Pathol. 42: 848-58.](#)
11. Ferrè, S. *et al.* (2014) Mutations in PCBD1 cause hypomagnesemia and renal magnesium wasting. [J Am Soc Nephrol. 25 \(3\): 574-86.](#)
12. Maeda-Hori, M. *et al.* (2014) Plasma CD147 reflects histological features in patients with lupus nephritis. [Lupus. 23: 342-52.](#)
13. Maruyama, H. *et al.* (2018) Medullary thick ascending limb impairment in the $Gla^{tm}Tg(CAG-A4GALT)$ Fabry model mice. [FASEB J. : fj201701374R.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life

Please see label for expiry date.

Health And Safety Information Material Safety Datasheet documentation #10087 available at:
10087: <https://www.bio-rad-antibodies.com/uploads/MSDS/10087.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[FITC](#), [HRP](#)

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