

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 <u>www.bio-</u>						
	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 r	not been t	ested for	use in a particular tech	nique 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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	IgG fraction - liquid						
Preparation	IgG fraction prepared by anion exchange chromatography						
Buffer Solution	Glycine buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (Na 0.1% EACA	aN ₃)					

0.01% Benzamidine 1 mM EDTA Immunogen Purified human uromucodulin prepared from urine. **External Database** UniProt: Links P07911 **Related reagents** Entrez Gene: 7369 UMOD Related reagents RRID AB 620425 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.

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	zinc finger protein 1 expression in human diseased kidney. <u>Hum Pathol. 42: 848-58.</u>			
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	magnesium wasting. <u>J Am Soc Nephrol. 25 (3): 574-86.</u>			
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	with lupus nephritis. Lupus. 23: 342-52.			
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	Gla tm Tg(CAG-A4GALT) Fabry model mice. <u>FASEB J. 32 (8): 4544-59.</u>			
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	inflammation but not fibrosis in experimental obstructive nephropathy. Physiol Rep. 6 (6):			
	<u>e13654.</u>			
	16. Heitmeier, M. et al. (2014) The role of tumor necrosis factor alpha in regulating the			
	expression of Tamm-Horsfall Protein (uromodulin) in thick ascending limbs during kidney			
	injury. <u>Am J Nephrol. 40 (5): 458-67.</u>			
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.			
Guarantee	Guaranteed until date of expiry. Please see product label.			
Health And Safety	Material Safety Datasheet documentation #10087 available at:			
Information	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...)BiotinDonkey Anti Sheep IgG (STAR88...)DyLight®488, HRP

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-	-rad.com	Email: antibody_sales_uk@bio	-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M361445:200219'

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