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• **Vlahakos, Demetrios**
154 51 Neo Psychiko Attikis (GR)

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(72) Inventors:
• **Charonis, Aristidis**
154 51 Neo Psychiko Attikis (GR)
• **Tsilibary, Effie-Photini**
154 51 Neo Psychiko Attikis (GR)
• **Vlahakos, Demetrios**
154 51 Neo Psychiko Attikis (GR)

(71) Applicants:
• **Foundation of Biomedical Research
of the Academy of Athens**
115 27 Athens (GR)
• **Charonis, Aristidis**
154 51 Neo Psychiko Attikis (GR)
• **Tsilibary, Effie-Photini**
154 51 Neo Psychiko Attikis (GR)

(74) Representative: **Tefou-Fotea, Eleni**
**Foundation of Biomedical Research
of the Academy of Athens**
4, Soranou Ephessiou
GR-115 27 Athens (GR)

(54) **Prognostic, diagnostic and therapeutic significance in detecting and using TIN-antigen (Tubulo-Interstitial nephritis antigen) and its segments**

(57) TIN antigen (the acronym is derived from Tubulo-Interstitial Nephritis) is a novel macromolecular component of basement membranes. It is expressed almost exclusively in the basement membrane of the proximal tubule of the kidney. This specific expression pattern led to the hypothesis that it can be used as a marker in diseases that affect the renal parenchyma in this area. More specifically, in cases of diabetic nephropathy and acute

tubular necrosis it can provide information contributing to early prognosis and diagnosis and to the follow up of the disease. Preliminary results are presented that support the hypothesis that the levels of TIN-ag in urine samples of patients with acute tubular necrosis or diabetes may be different compared to samples from healthy individuals.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
P,A	K. KOUZI-KOLIAKOS, ET AL: "Purification and localization of Tubulointerstitial Nephritis antigen (TIN-ag) in kidney and small intestine" JOURNAL OF BIOLOGICAL RESEARCH, [Online] vol. 1, 2004, pages 91-99, XP002391316 Retrieved from the Internet: URL:http://www.jbr.gr/papers20041/10-2004.pdf> [retrieved on 2006-07-19] * abstract * * page 98 *	1-5	INV. G01N33/53 C07K14/78
A	----- KUMAR A ET AL: "DEVELOPMENTAL REGULATION AND PARTIAL-LENGTH CLONING OF TUBULOINTERSTITIAL NEPHRITIS ANTIGEN OF MURINE METANEPHROS" KIDNEY INTERNATIONAL, NEW YORK, NY, US, vol. 52, no. 3, 1997, pages 620-627, XP000909403 ISSN: 0085-2538 * page 625 - page 627 *	1-5	
A	----- KANWAR YASHPAL S ET AL: "Tubulointerstitial nephritis antigen: An extracellular matrix protein that selectively regulates tubulogenesis vs. glomerulogenesis during mammalian renal development" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 96, no. 20, 28 September 1999 (1999-09-28), pages 11323-11328, XP002391317 ISSN: 0027-8424 * the whole document *	1-5	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			G01N C07K
Place of search		Date of completion of the search	Examiner
Munich		20 July 2006	Vollbach, S
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03.02 (P04C01)

专利名称(译)	检测和使用TIN-抗原 (Tubulo-Interstitial肾炎抗原) 及其片段的预后 , 诊断和治疗意义		
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[标]申请(专利权)人(译)	雅典ACAD生物医学RES发现 charonis aristidis tsilibary菲photini vlahakos维		
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[标]发明人	CHARONIS ARISTIDIS TSILIBARY EFFIE PHOTINI VLAHAKOS DEMETRIOS		
发明人	CHARONIS, ARISTIDIS TSILIBARY, EFFIE-PHOTINI VLAHAKOS, DEMETRIOS		
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其他公开文献	EP1698898A2		
外部链接	Espacenet		

摘要(译)

TIN抗原 (首字母缩写词源自Tubulo-Interstitial Nephritis) 是基底膜的新型大分子组分。它几乎仅在肾近端小管的基底膜中表达。这种特定的表达模式导致了这样的假设 : 它可以用作影响该区域肾实质的疾病的标志物。更具体地, 在糖尿病性肾病和急性肾小管坏死的情况下, 它可以提供有助于早期预后和诊断以及疾病随访的信息。初步结果表明支持这样的假设, 即与健康个体的样本相比, 急性肾小管坏死或糖尿病患者的尿液样本中的TIN-ag水平可能不同。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of documents with indication, where appropriate, of relevant passages.		
P, A	K. ROUZI-KOLIAKOS, ET AL.: "Purification and localization of TubuloInterstitial Nephritis antigen (TIN-ag) in kidney and small intestine" JOURNAL OF BIOLOGICAL RESEARCH, [online] vol. 1, 2004, pages 91-99, XP002391310 Retrieved from the Internet: URL:http://www.ibr.gr/papers/2004/10-2004.pdf - [retrieved on 2006-07-19] * abstract *	1-5	INV. G01N33/53 C07K14/78
A	KUMAR A ET AL: "DEVELOPMENTAL REGULATION AND PARTIAL-LENGTH CLONING OF TUBULOINTERSTITIAL NEPHRITIS ANTIGEN OF MURINE METANEPHROS" KIDNEY INTERNATIONAL, NEW YORK, NY, vol. 52, no. 3, 1997, pages 626-627, XP00099403 ISSN: 0085-2538 * page 625 - page 627 *	1-5	TECHNICAL FIELD SEARCHED
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Place of search		Date of completion of the search	Examiner
Munich		20 July 2006	Vollbach, S
CATEGORY OF CITED DOCUMENTS * particularly relevant to the claims ** relevant to the application *** relevant to the prior art **** relevant to the state of the art ***** intermediate document			
1: Priority or patent underlying the invention 2: Priority or patent document, EP/ national or other document 3: Document cited in the application 4: Document cited for other reasons 5: Number of the same patent family, corresponding document			