

## Publikationen TKTL1 & Apo 10:

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### Endokrinologie

#### **Schilddrüsenkarzinom:**

Zerilli M et al: Increased expression of transketolase-like-1 in papillary thyroid carcinomas smaller than 1.5 cm in diameter is associated with lymph-node metastases. *Cancer*. 2008 Sep 1;113(5):936-44.

### Gastroenterologie

#### **Rektumkarzinom und Kolonkarzinom:**

Schwaab et al: Expression of Transketolase like gene 1 (TKTL1) predicts disease-free survival in patients with locally advanced rectal cancer receiving neoadjuvant chemoradiotherapy. *BMC Cancer* 2011, 11:363. Universitätsmedizin Mannheim

Diaz-Moralli S et al: Transketolase-like 1 expression is modulated during colorectal cancer progression and metastasis formation. *PLoS One*. 2011;6(9):e25323. Epub 2011 Sep 27.

Xu X et al: Transketolase-like protein 1 (TKTL1) is required for rapid cell growth and full viability of human tumor cells. *Int J Cancer*. 2009 Mar 15;124(6):1330-7. Deutsches Krebsforschungszentrum Heidelberg

Langbein S et al: Expression of transketolase TKTL1 predicts colon and urothelial cancer patient survival: Warburg effect reinterpreted. *Br J Cancer*. 2006 Feb 27;94(4):578-85. Universitätsmedizin Mannheim

### **Magenkarzinome:**

Yuan W et al: Silencing of TKTL1 by siRNA inhibits proliferation of human gastric cancer cells in vitro and in vivo. *Cancer Biol Ther.* 2010 May;9(9):710-6. Epub 2010 May

Staiger et al: Expression of the mutated transketolase TKTL1, a molecular marker in gastric cancer. *Oncol Rep.* 2006 Oct;16(4):657-61. Universitätsmedizin Mannheim

## Gynäkologie

### **Mammakarzinom:**

Schmidt M et al: Glycolytic phenotype in breast cancer: activation of Akt, up-regulation of GLUT1, TKTL1 and down-regulation of M2PK. *J Cancer Res Clin Oncol.* 2010 Feb;136(2):219-25. Epub 2009 Aug 5. Universitätsklinikum Würzburg

A. Rotmann et al: TKTL1 - a new biomarker and its relevance in the daily gynaecological practice. Poster FIGO 2009

Földi M et al: Transketolase protein TKTL1 overexpression: A potential biomarker and therapeutic target in breast cancer. *Oncol Rep.* 2007 Apr;17(4):841-5. Universitätsklinikum Freiburg

### **Mammakarzinom:**

O. Feyen et al: EDIM-TKTL1 blood test for reliable pre-selection of cancer patients eligible for FDG-PET/CT imaging. *Anticancer Research* ISSN 0250-7005. Rhönklinikum Bad Berka

### **Endometriumkarzinome:**

Krockenberger M: Expression of transketolase-like 1 protein (TKTL1) in human endometrial cancer. *Anticancer Res.* 2010 May;30(5):1653-9. Universitätsklinikum Würzburg

### **Ovariakarzinom:**

Schmidt M et al: Glucose metabolism and angiogenesis in granulosa cell tumors of the ovary: activation of Akt, expression of M2PK, TKTL1 and VEGF. *Eur J Obstet Gynecol Reprod Biol.* 2008 Jul;139(1):72-8. Epub 2008 Apr 3. Universitätsklinikum Würzburg

Krockenberger M et al: Transketolase-like 1 expression correlates with subtypes of ovarian cancer and the presence of distant metastases. *Int J Gynecol Cancer* 2007 Jan-Feb;17(1):101-6. Universitätsklinikum Würzburg

### **Cervixkarzinom:**

Chen H et al: Overexpression of transketolase-like gene 1 is associated with cell proliferation in uterine cervix cancer. *J Exp Clin Cancer Res.* 2009 Mar 30;28:43. Universitätsklinikum Würzburg

### **Cervixkarzinom:**

Kohrenhagen N et al: Expression of transketolase-like 1 (TKTL1) and p-Akt correlates with the progression of cervical neoplasia. J Obstet Gynaecol Res. 2008 Jun;34(3):293-300.

## Hals-, Nasen-, Ohrenheilkunde

### **Kopf- und Halskarzinome:**

Hartmannsberger D et al: Transketolase-like protein 1 confers resistance to serum withdrawal in vitro. Cancer Lett. 2011 Jan 1;300(1):20-9. Epub 2010 Sep 29. Universitätsklinikum München

Smith IM et al, Coordinated activation of candidate proto-oncogenes and cancer testes antigens via promoter demethylation in head and neck cancer and lung cancer. PLoS One. 2009;4(3):e4961. Epub 2009 Mar 23.

Sun W et al: TKTL1 is activated by promoter hypomethylation and contributes to head and neck squamous cell carcinoma carcinogenesis through increased aerobic glycolysis and HIF1alpha stabilization. Clin Cancer Res. 2010 Feb 1;16(3):857-66. Epub 2010 Jan 26.

Völker HU et al: Overexpression of transketolase TKTL1 is associated with shorter survival in laryngeal squamous cell carcinomas. Eur Arch Otorhinolaryngol. 2007 Dec;264(12):1431-6. Epub 2007 Jul 18. Universitätsklinikum Würzburg

## Neurologie

### **Hirntumoren:**

Völker HU et al: Expression of transketolase-like 1 and activation of Akt in grade IV glioblastomas compared with grades II and III astrocytic gliomas. Am J Clin Pathol. 2008 Jul;130(1):50-7. Universitätsklinikum Würzburg

## Pulmonologie

### **Lungenkarzinom:**

Kayser G et al: Poor outcome in primary non-small cell lung cancers is predicted by transketolase TKTL1 expression. Pathology. 2011 Dec;43(7):719-24. Universitätsklinikum Freiburg

Kayser G et al: Lactate-dehydrogenase 5 is overexpressed in non-small cell lung cancer and correlates with the expression of the transketolase-like protein 1. Diagn Pathol. 2010 Apr 12;5:22. Universitätsklinikum Freiburg

O. Feyen et al: EDIM-TKTL1 blood test for reliable pre-selection of cancer patients eligible for FDG-PET/CT imaging. Anticancer Research ISSN 0250-7005. Rhönklinikum Bad Berka

### **Lungenkarzinom:**

V. Prasad et al., Transketolase-like 1 (TKTL1), a new intracellular marker for staging of non-small cell lung cancer (NSCLC): Correlation with metabolic tumor size on F-18 FDG PET/CT. Poster SNM 2010. Rhönklinikum Bad Berka

Smith IM et al: Coordinated activation of candidate proto-oncogenes and cancer testes antigens via promoter demethylation in head and neck cancer and lung cancer. PLoS One. 2009;4(3):e4961. Epub 2009 Mar 23.

## Urologie

### **Prostatakarzinom:**

Arnhold J: Therapy monitoring and early detection of metastasis using tumor protein detection in macrophages. Anticancer Research ISSN 0250-7005:

### **Urothelialkarzinom:**

Langbein S et al: Expression of transketolase TKTL1 predicts colon and urothelial cancer patient survival: Warburg effect reinterpreted. Br J Cancer. 2006 Feb 27;94(4):578-85. Universitätsmedizin Mannheim

### **Nephroblastom:**

Wu HT et al: Anaplastic nephroblastomas express transketolase-like enzyme 1. J Clin Pathol. 2009 May;62(5):460-3. Epub 2009 Jan 12.

### **Nierenkarzinom:**

Langbein S et al: Metastasis is promoted by a bioenergetic switch: new targets for progressive renal cell cancer. Int J Cancer. 2008 Jun 1;122(11):2422-8.