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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

5T4 Oncofetal Trophoblast glycoprotein. Rabbit Antigen Immunoaffinity Purified Polyclonal

BACKGROUND

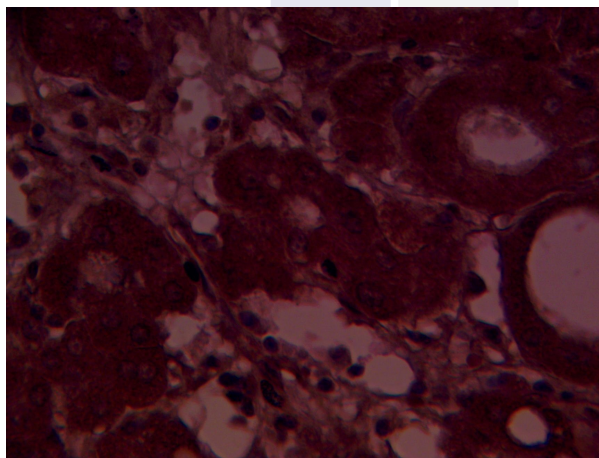
5T4 is a N-glycosylated transmembrane 72 kDa (420 AA) glycoprotein containing seven leucine-rich repeat regions. 5T4 is often referred to as an oncofetal antigen due to its expression in foetal trophoblast where it was first discovered or trophoblast glycoprotein (TPBG). 5T4 oncofetal antigen is defined by a monoclonal antibody originally raised against human placental trophoblast and which recognizes a 72 kD glycoprotein expressed in a variety of different carcinomas but detected only at very low levels in normal epithelia. Patterns of expression of 5T4 oncofetal antigen in colorectal carcinomas indicate a significant association with tumor metastasis. By IHC, 71% of the carcinomas demonstrate positive 5T4 immunoreactivity in adenocarcinoma cells and/or associated stromal tissue. 5T4 is found in tumors including the colorectal, ovarian, and gastric. Its expression is used as a prognostic aid in these cases. 5T4 is widespread in malignant tumors throughout the various stages of their development.

In assessing the 5T4 phenotype it has been determined that there is a significant correlation between 5T4 expression and advanced stage of disease (FIGO stages III and IV) ($P < 0.001$) and with poorly differentiated tumors ($P = 0.036$) compared to well or moderately differentiated tumors. Patients with tumors expressing 5T4 were are likely to respond well to adjuvant therapy and have a significantly worse outlook in terms of survival and disease-free interval.

IMMUNOGEN

Synthetic peptide derived from human 5T4 oncofetal antigen protein

Immunohistochemical staining of normal human kidney tissue using Sirt1 antibody (Cat. No. X2739P) at 10 $\mu\text{g/ml}$ and detected using anti-Rabbit HRP secondary antibody and visualized using DAB substrate and hematoxylin counterstain.



ORDERING INFORMATION

CATALOG NUMBER

X2738P

SIZE

100 μg

FORM

Affinity Purified

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

Ig

APPLICATIONS

Immunohistochemistry, Western Blot, ELISA

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Q13641, Human

POSITIVE CONTROL/TISSUE EXPRESSION

Ovarian Cancer, gastric cancer, colorectal cancer.

COMMENTS

This antibody can be used for immunohistochemistry on formalin/paraffin sections (5-10 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Yoshihara, S., et al. "5T4 glycoprotein regulates the sensory input-dependent development of a specific subtype of newborn interneurons in the mouse olfactory bulb." *J. Neurosci.* 2012, 32, 2217-2226.
2. Southgate, T.D., et al. "CXCR4 mediated chemotaxis is regulated by 5T4 oncofetal glycoprotein in mouse embryonic cells." *PLoS One* 2010, 5, e9982.
3. Shingler, W.H., et al. "Identification and functional validation of MHC class I epitopes in the tumor-associated antigen 5T4." *Int. Immunol.* 2008, 20, 1057-1066.