

**Rabbit Anti-5T4 [EPR5529]: RM0349**

**Intended Use:** For Research Use Only

**Description:** 5T4 is a 72 kDa transmembrane glycoprotein that exhibits restricted expression in human and mouse adult tissues, is upregulated on many carcinomas and tumour expression correlates with poorer clinical outcome in ovarian, gastric and colorectal cancers. mES cells lack cell surface expression of the 5T4 antigen, and both protein and mRNA are rapidly upregulated following induction of differentiation. This proteins expression correlates with downregulation of OCT-4 and Tra-1-60.

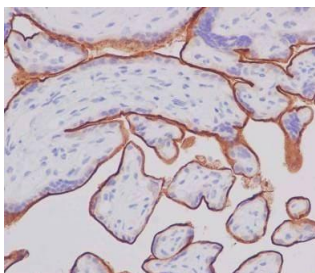
**Specifications**

Clone: EPR5529  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: Synthetic peptide of human 5T4 aa 100-200  
 Localization: membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.01% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
5T4 Concentrated	RM0349	1 ml

**IHC Procedure**

Positive Control: Placenta, endometrial cancer tissues  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-5T4 using DAB

**References:**

1. Long-term tumor regression induced by an antibody-drug conjugate that targets 5T4, an oncofetal antigen expressed on tumor-initiating cells. Sapra P, et al. Mol Cancer Ther 12:38-47, 2013.
2. Overexpression and potential targeting of the oncofoetal antigen 5T4 in malignant pleural mesothelioma. Al-Taei S, et al. Lung Cancer. Aug;77(2):312-8, 2012.
3. Expression of the 5T4 oncofoetal antigen in renal cell carcinoma: a potential target for T-cell-based immunotherapy. Griffiths RW, et al. Br J Cancer. Sep 19;93(6):670-7, 2005.

Doc. 100-RM0349  
Rev. B