# Product Data Sheet
# 5T4 (9W4) Rabbit Monoclonal Antibody

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| **Product name:** | 5T4 (9W4) Rabbit Monoclonal Antibody |
| **Cat number:** | MABN06346 |
| **Conjugate:** | Unconjugated |
| **Size:** | 100µL |
| **Clone:** | Monoclonal |
| **Concentration:** | 1mg/ml |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Immunogen:** | A synthetic peptide of human 5T4 |
| **Reactivity:** | Human |
| **Applications:** | WB 1:1000-1:5000,IHC 1:200-1:1000,IF-P 1:200-1:1000 |
| **Molecular Weight:** | 46kDa |
| **Purification:** | Affinity purification |
| **Form:** | Liquid |
| **Buffer:** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage:** | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles. |
| **Synonyms:** | TPBG; 5T4; 5T4-AG; 5T4AG; 5T4 oncofetal antigen; M6P1; Trophoblast glycoprotein; |
| **Background:** | 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. May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization. |