

## DESCRIPTION

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| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                                               |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human 5T4 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant mouse 5T4 is observed. |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 524731                                                                    |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                                          |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant human 5T4<br>Ser31-Ser355<br>Accession # Q13641                     |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                     |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                        |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                                     |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Human 5T4 (oncofetal antigen 5T4; also TPBG and trophoblast glycoprotein) is a 72 kDa glycoprotein member of the LRR family of proteins. It is expressed on trophoblasts, tumor cells, ovarian cuboidal epithelium and embryonic stem cells, and impacts cell adhesion and motility. The human 5T4 cDNA encodes a type I transmembrane protein precursor that is 420 amino acids (aa) in length. It contains a 324 aa extracellular region (aa 32-355) that shows one Ser-rich region followed by seven Leu-rich repeats (aa 90-355). Over aa 31-355, human 5T4 shares 81% and 85% aa identity with mouse and canine 5T4, respectively.

## PRODUCT SPECIFIC NOTICES

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