# Human 5T4 PE-conjugated Antibody

Monoclonal Mouse $IgG_1$ Clone # 524744

Catalog Number: FAB49751P
100 TESTS

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human 5T4 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse 5T4 is observed. |
| **Source** | Monoclonal Mouse $IgG_1$ Clone # 524744 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human 5T4<br>Ser31-Ser355<br>Accession # Q13641 |
| **Conjugate** | Phycoerythrin<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 565-605 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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. |

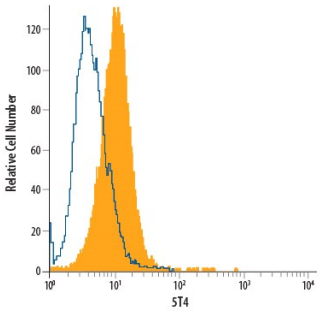
## APPLICATIONS

**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.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 10 µL/$10^6$ cells | See Below |

## DATA

**Flow Cytometry**




**Detection of 5T4 in BG01V Human Cells by Flow Cytometry.** BG01V human embryonic stem cells were stained with Mouse Anti-Human 5T4 PE-conjugated Monoclonal Antibody (Catalog # FAB49751P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

| | |
|---|---|
| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Protect from light. Do not freeze.**<br>● 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.



bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956