Human 5T4 APC-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 524744

Catalog Number: FAB49751A

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 Ser31-Ser355 Accession # Q13641
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

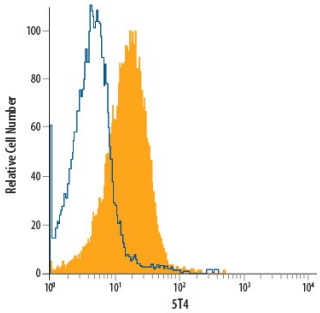
APPLICATIONS

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 APC-conjugated Monoclonal Antibody (Catalog # FAB49751A, filled histogram) or isotype control antibody (Catalog # IC002A, 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.** ● 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.