Human 5T4 Antibody

Monoclonal Mouse IgG_1 Clone # 524744

Catalog Number: MAB49751

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

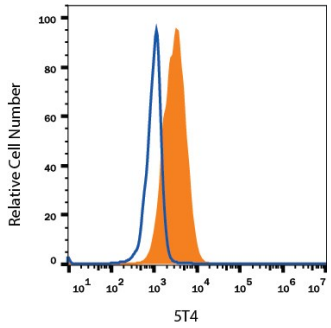
APPLICATIONS

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	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

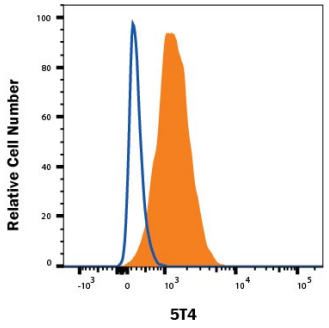
DATA

Flow Cytometry



Detection of 5T4 in BG01V Human Cells by Flow Cytometry. Differentiated BG01V human embryonic stem cells were stained with Mouse Anti-Human 5T4 Monoclonal Antibody (Catalog # MAB49751, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$Secondary Antibody (Catalog # Catalog # F0101B).

Flow Cytometry



Detection of 5T4 in MCF-7 Human Cells by Flow Cytometry. MCF-7 human breast cancer cell line was stained with Mouse Anti-Human 5T4 Monoclonal Antibody (Catalog # MAB49751, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG F(ab')2Secondary Antibody (Catalog # F0101B). Staining was performed using our Staining Membrane-associated Proteins protocol.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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