Human CLP24 Antibody

Monoclonal Mouse IgG_{2B} Clone # 652424

Catalog Number: MAB6747

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLP24 in ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 652424
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CLP24 Accession # Q9BSN7
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 as a 0.2 µm filtered solution in PBS.

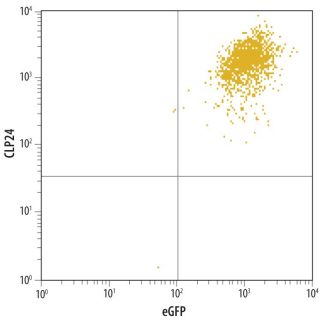
APPLICATIONS

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	2.5 µg/10^6 cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below

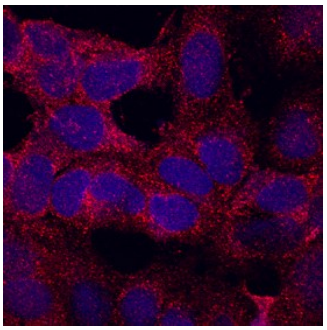
DATA

Flow Cytometry



Detection of CLP24 in CLP24 and eGFP Co-Transfected Cells by Flow Cytometry. Human CLP24 and eGFP co-transfectants were stained with Mouse Anti-Human CLP24 Monoclonal Antibody (Catalog # MAB6747) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041).

Immunocytochemistry



CLP24 in NTera-2 Human Cell Line. CLP24 was detected in immersion fixed NTera-2 human testicular embryonic carcinoma cell line using Mouse Anti-Human CLP24 Monoclonal Antibody (Catalog # MAB6747) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

TMEM204, also known as Claudin-like protein of 24 kDa (CLP24), is a cell surface protein with four transmembrane domains and a C-terminal PDZ motif. TMEM204 localizes to adherens junctions between epithelial and endothelial cells. It is involved in regulating paracellular flux and is upregulated under hypoxic conditions. Human TMEM204 shares 88% aa sequence identity with mouse and rat TMEM204.

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