

DESCRIPTION

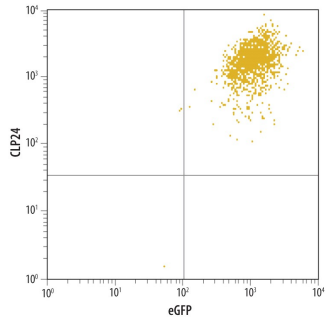
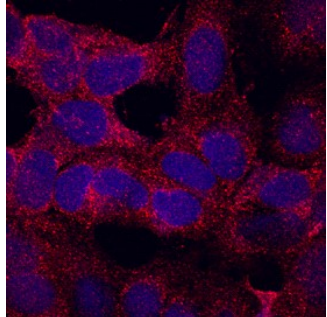
Species Reactivity	Human
Specificity	Detects human CLP24 in ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 652424
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CLP24 Accession # Q9BSN7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	2.5 µg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> 	<p>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).</p>	<p>Immunocytochemistry</p> 	<p>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.</p>
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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. <ul style="list-style-type: none"> ● 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.