Human CXCL17/VCC-1 Antibody

Monoclonal Mouse IgG_1 Clone # 422204

Catalog Number: MAB42071

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CXCL17/VCC-1 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 422204
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human CXCL17/VCC-1 Leu24-Leu119 Accession # Q6UXB2
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.

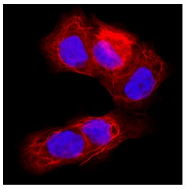
APPLICATIONS

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.*

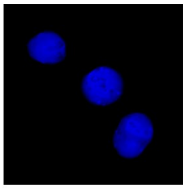
	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	Immersion fixed RT-4 human urinary bladder transitional cell papilloma cell line
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human stomach

DATA

Immunocytochemistry



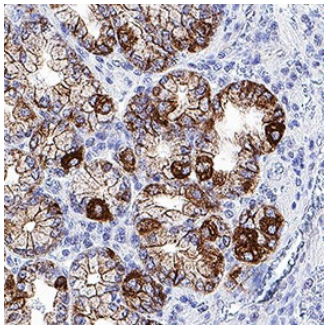
Positive (RT4 cells)



Negative (THP-1 cells)

CXCL17/VCC-1 in RT-4 Human Cell Line. CXCL17/VCC-1 was detected in immersion fixed RT-4 human urinary bladder transitional cell papilloma cell line (positive staining) and THP-1 human acute monocytic leukemia cell line (negative staining) using Mouse Anti-Human CXCL17/VCC-1 Monoclonal Antibody (Catalog # MAB42071) at 8 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 surface and cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Immunohistochemistry



CXCL17/VCC-1 in Human Stomach. CXCL17/VCC-1 was detected in immersion fixed paraffin-embedded sections of human stomach using Mouse Anti-Human CXCL17/VCC-1 Monoclonal Antibody (Catalog # MAB42071) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface and cytoplasm in gastric glands. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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.

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BACKGROUND

CXCL17, also known as dendritic cell and monocyte chemokine-like protein (DMC) and VEGF-correlated chemokine-1 (VCC-1), is a secreted molecule with a size and predicted three-dimensional folding pattern similar to that of chemokines CXCL8/IL-8 and CXCL14/BRAK (1, 2). It has no predicted N-glycosylation site. Cleavage of a 23 amino acid (aa) signal sequence yields the mature 96 aa human CXCL17. CXCL17 is constitutively produced by airway and intestinal epithelium (1). It induces the chemotaxis of quiescent, but not LPS-activated peripheral blood monocytes and dendritic cells (1). CXCL17 expression is increased in endothelial cells when they are induced to form tubes *in vitro* (2). Transgenic overexpression in NIH3T3 cells causes upregulation of proteins such as VEGF and FGF basic, and increases cell growth rate and tumorigenicity (2). CXCL17, plus two other chemokines that play roles in angiogenesis, CXCL1/GRO and CXCL8/IL-8, show a correlated expression pattern with VEGF in primary lung, breast and esophageal tumors (2). CXCL17 is, therefore, suggested to play a role in tumor angiogenesis. Mature human CXCL17 shares 73%, 71% and 64% amino acid sequence identity with bovine, mouse and rat CXCL17, respectively.

References:

1. Pisabarro, M.T. *et al.* (2006) J. Immunol. **176**:2069.
2. Weinstein, E.J. *et al.* (2006) Biochem. Biophys. Res. Commun. **350**:74.

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