

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse (rm) CXCL17/VCC-1 in direct ELISAs and Western blots. In direct ELISAs, 50% cross-reactivity with recombinant human CXCL17 is observed/VCC-1.
Source	Monoclonal Rat IgG _{2B} Clone # 510614
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL17/VCC-1 Ser31-Leu119 Accession # Q5UW37
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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

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 sites, so cleavage of a 22 amino acid (aa) signal sequence likely results in a mature mouse CXCL17 molecule of 97 aa and 11 kDa size. 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, and also binds these cells specifically (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 and two other chemokines that play roles in angiogenesis, CXCL1/GRO and CXCL8/IL-8, show significantly correlated expression with that of VEGF in primary lung, breast and esophageal tumors (2). CXCL17 is therefore suggested to play a role in tumor angiogenesis. Mature mouse CXCL17 shares 82%, 71% and 66% amino acid sequence identity with rat, human and bovine CXCL17, respectively.

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