Mouse CXCL17/VCC-1 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: BAF4270

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL17/VCC-1 in Western blots. In Western blots, approximately 5% cross-reactivity with recombinant human CXCL17/VCC-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse CXCL17/VCC-1 Ser31-Leu119 Accession # Q5UW37.1
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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
Western Blot	0.1 µg/mL	Recombinant Mouse CXCL17/VCC-1 (Catalog # 4270-DM)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

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.

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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