

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL16 in ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CXCL1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, recombinant mouse CXCL1, 2, 6, 9, 10, 11, 12, 13, 14, 15, recombinant rat CXCL
Source	Monoclonal Rat IgG _{2A} Clone # 142417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL16 Asn27-Pro114 Accession # Q8BSU2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Neutralization	Optimal dilution of this antibody should be experimentally determined.
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

Mouse CXCL16 (CXC chemokine 16) is a non-ELR motif-containing CXC chemokine with a transmembrane domain. CX3CL1/Fractalkine and CXCL16 are the only two transmembrane chemokines within the superfamily. Mouse CXCL16 cDNA encodes a 246 amino acid (aa) precursor protein with a putative 26 aa signal peptide, an 88 aa chemokine domain, an 87 aa mucin-like spacer region, a 22 aa transmembrane domain, and a 23 aa cytoplasmic tail. Mouse and human CXCL16 share 49% aa sequence identity. Mouse CXCL16 is produced by dendritic cells in lymphoid organ T cell zones and by cells in the splenic red pulp both as membrane-bound and soluble forms. Based on northern blot analysis, CXCL16 is also expressed in some non-lymphoid tissues such as lung, small intestine and kidney. The receptor for CXCL16 has been identified as CXCR6 (previously called Bonzo, STRL33 or TYMSTR), which is also a coreceptor for HIV entry. CXCR6 is expressed on naive CD8 cells, natural killer T cells and activated CD8 and CD4 T cells.

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