

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL15/Lungkine in ELISAs and Western blots. In sandwich immunoassays, no cross-reactivity or interference with recombinant mouse (rm) CXCL13, recombinant human (rh) CXCL13, rhCXCL5, rhCXCL8, rmMIP-2, recombinant rat CINC
Source	Monoclonal Rat IgG _{2B} Clone # 96708
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL15/Lungkine Gln26-Ala167 Accession # Q9WVL7
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.
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 Lungkine/CXCL15 (1), also named WECH (2), is a member of the ELR motif-containing CXC chemokines. The cDNA of mouse Lungkine encodes a protein of 166 amino acids (aa) with a 25 aa predicted signal peptide and a 141 aa mature protein with an extremely long C-terminal tail that protrudes beyond the chemokine fold. Mouse Lungkine shares 35% aa sequence identity with human CXCL5 and 31% identity with human CXCL8. The gene for mouse Lungkine has been mapped to chromosome 5. By Northern blot and in situ hybridization, Lungkine transcripts are only specifically detected in the adult and fetal lung, and its expression is up-regulated under inflammatory conditions (1). Lungkine protein is secreted into bronchoalveolar space and is involved in lung-specific neutrophils trafficking (1). Studies from Lungkine knock out mice suggests that Lungkine is an important mediator of neutrophil migration from the lung parenchyma into the airspace (3). Lungkine is also chemotactic for bone marrow progenitor cells and modulates hematopoietic cell differentiation (2).

PRODUCT SPECIFIC NOTICES

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