Mouse CXCL15/Lungkine Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF442

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL15/Lungkine in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with rm6Ckine, rmC10, rrCINC-1, rmBLC, rmCRG-2, rmEotaxin, rmFractalkine, rmGCP-2, rmJE, rmKC, rmLymphotactin, rmMARC, rmMDC, rmMIG, rmMIP-1α, rmMIP-1β, rmRANTES, rmSDF-1α, rmTCA-3 and rmTeck is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse CXCL15/Lungkine (R&D Systems, Catalog # 442-LK) Gln26-Ala167 Accession # Q9WVL7
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

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 CXCL15/Lungkine (Catalog # 442-LK)

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

Mouse Lungkine/CXCL15 (1), also named WECHE (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 ENA-78 and 31% identity with human IL-8. 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).

References:

1. Rossi, D.L. *et al.* (1999) J. Immunol. **162**:5490.
2. Ohneda, O. *et al.* (2000) Immunity **12**:141.
3. Chen, S-C. *et al.* (2001) J. Immunol. **166**:3362.

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