

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse LIX in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human GCP-2, recombinant rat (rr) CINC-2α, rrCINC-2β, recombinant mouse (rm) KC, and rmMIP-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse LIX Val45-Ala118 Accession # P50228
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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

LIX (Liposaccharide-Induced CXC chemokine; also GARG-8 and Cxcl5) is a secreted 8-9 kDa member of the Interleukin alpha (or Cx) family of chemokines. It is widely expressed, being produced by diverse cell types such as fibroblasts, thymic epithelium, platelets, vascular endothelium, hepatocytes, lung type II alveolar cells and ileal columnar epithelium. As a chemokine, LIX demonstrates chemokinetic properties. It induces the chemotaxis of neutrophils and endothelial cells, and also promotes TNF-α secretion from mast cells and macrophages. Notably, circulating LIX is not derived from fibroblasts, but platelets. This suggests that neutrophil homeostasis/chemotaxis is a function of local resident cell activation and LIX secretion, not generally circulating LIX. Mouse LIX is synthesized as a 132 amino acid (aa) precursor that contains a 40 aa signal sequence, a 78 aa mature region (aa 41-118), and a cleavable 14 aa C-terminus. The mature region possesses an ELR/GluLeuArg motif between aa 50-52, and an α-family characteristic Cx motif between aa 53-55. Although there are no known splice variants of mouse LIX, considerable proteolytic processing occurs at both the N- and C-termini over aa 41-132. This may reduce the MW in SDS-PAGE by as much as 3 kDa. The majority of LIX appears to start between aa 47-50, and this is positively correlated with bioactivity. Over aa 41-118, mouse LIX shares 73% aa sequence identity with rat LIX. Although not a strict ortholog, mouse LIX shares 63% aa sequence identity with human GCP-2.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.