

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat LIX in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant mouse GCP-2 is observed and less than 5% cross-reactivity with recombinant human GCP-2 is observed and no cross reacti
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant rat LIX Ala38-Gln130 Accession # P97885.1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

LPS-induced CXC chemokine (LIX) is a chemokine originally cloned from LPS-stimulated mouse fibroblasts. Rat LIX shares approximately 74% amino acid (aa) sequence identity with mouse LIX and is likely the rat orthologue to mouse LIX. Rat LIX cDNA encodes a 130 aa residue precursor with a predicted 37 aa residue signal peptide and a 93 aa residue mature protein. Among human CXC chemokines, rat LIX is most closely related to human GCP-2 and ENA-78. Rat LIX also differs from these two human proteins by having an extended carboxy-terminus. The amino-terminal 115 residues of rat LIX shares 59% and 53% aa sequence homology with human GCP-2 and ENA-78, respectively. It is not clear if LIX should be considered an orthologue of GCP-2 or ENA-78. Yet, mouse LIX was alternatively named mouse GCP-2.

Purified recombinant rat LIX is C-terminally truncated. This is consistent with the observation that natural mouse LIX purified from fibroblasts and epithelial cells also contains multiple amino-terminal and carboxy-terminal truncated isoforms. The shorter isoforms of the natural protein were reported to be more active than the longer forms. The bioactivity of rat LIX can be mediated through CXCR2.

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