

## Mouse CXCL14/BRAK Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: BAF730

Species Reactivity         Mouse           Specificity         Detects mouse CXCL14/BRAK in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CXCL14 observed.           Source         Polyclonal Sheep IgG           Purification         Antigen Affinity-purified           Immunogen         E. coli-derived recombinant mouse CXCL14/BRAK Ser23-Glu99	DESCRIPTION		
observed.  Source Polyclonal Sheep IgG  Purification Antigen Affinity-purified  Immunogen E. coli-derived recombinant mouse CXCL14/BRAK Ser23-Glu99 Accession # Q9JHH7	Species Reactivity	Mouse	
Purification Antigen Affinity-purified  Immunogen E. coli-derived recombinant mouse CXCL14/BRAK Ser23-Glu99 Accession # Q9JHH7	Specificity	Detects mouse CXCL14/BRAK in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CXCL14 is observed.	
Immunogen E. coli-derived recombinant mouse CXCL14/BRAK Ser23-Glu99 Accession # Q9JHH7	Source	Polyclonal Sheep IgG	
Ser23-Glu99 Accession # Q9JHH7	Purification	Antigen Affinity-purified	
Formulation Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	Immunogen	Ser23-Glu99	
	Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

## **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 CXCL14/BRAK (Catalog # 730-XC)

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.		
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>		
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	• 6 months, -20 to -70 °C under sterile conditions after reconstitution.		

## BACKGROUND

CXCL14/BRAK, also named MIP-2 gamma, KEC (kidney-expressed chemokine), and BMAC (B cell and monocyte-activating chemokine), is a member of the CXC chemokine superfamily (1-5). The deduced 99 amino acid (aa) residue precursor has a 22 aa putative signal peptide that is cleaved to produce the 77 aa mature protein. Mature human and mouse CXCL14 differ by only 2 residues. Mouse CXCL14 shares approximately 30% aa sequence identity with mouse MIP-2. Unlike MIP-2, CXCL14 lacks the ELR domain preceding the CXC motif. CXCL14 transcripts are constitutively expressed at high levels in the basal layer of epidermal keratinocytes and dermal fibroblasts of skin tissues as well as lamina propria cells in normal intestinal tissues. CXCL14 has been shown to be a highly selective chemoattractant for monocytes that have been treated with prostaglandin E<sub>2</sub> or forskolin, agents that activate adenylate cyclase. CXCL14 has been proposed to be important in regulating the trafficking of macrophage precursor to regions in skin and mucosal tissues that support their development. Consistent with this hypothesis, macrophages were frequently found to co-localize with CXCL14-producing cells in the dermis and lamina propria.

## References:

- 1. Hromas, R. et al. (1999) Biochem. Biophys. Res. Commun. 255:703.
- 2. Cao, X. et al. (2000) J. Immunol. 165:2588.
- 3. Kurth, I. et al. (2001) J. Exp. Med. 194:855.
- 4. Frederick, M.J. et al. (2000) Am. J. Pathol. 156:1937.
- 5. Sleeman, M.A. et al. (2000) Int. Immunol. 12:677.

