Feline CXCL8/IL-8 Biotinylated Antibody

Monoclonal Rat IgG_{2B} Clone # 344610

Catalog Number: BAM22771

DESCRIPTION

Species Reactivity	Feline
Specificity	Detects feline CXCL8/IL−8 in ELISAs. In sandwich immunoassays, no cross-reactivity with recombinant human CXCL8, recombinant canine CXCL8, or recombinant porcine CXCL8 is observed.
Source	Monoclonal Rat IgG_{2B} Clone # 344610
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant feline CXCL8/IL−8 Ala23-Ala101 Accession # Q9XSX5.1
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.*

Feline CXCL8/IL-8 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Feline CXCL8/IL−8 Antibody (Catalog # MAB22772)
ELISA Detection	0.5-2.0 µg/mL	Feline CXCL8/IL−8 Biotinylated Antibody (Catalog # BAM22771)
Standard		Recombinant Feline CXCL8/IL−8 (Catalog # 2277-FL)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Interleukin 8 (IL-8), also named CXCL8, monocyte-derived neutrophil chemotactic factor (MDNCF), neutrophil-activating protein 1 (NAP-1), neutrophil-activating factor (NAF) and granulocyte chemotactic peptide (GCP), belongs to the Glu-Leu-Arg motif containing (ELR+) CXC chemokine family and has been designated CXCL8. IL-8 is a potent neutrophil chemoattractant that recruits neutrophils to sites of inflammation. IL-8 also activates neutrophil functions and promotes angiogenesis. The biological activites of IL-8 is mediated by two types of G protein-coupled chemokine receptors, CXCR1 and CXCR2 (1, 2). In normal tissues, IL-8 expression and secretion is barely detectable. Upon stimulation by a wide range of pro-inflammatory signals including exposure to IL-1, TNF, bacterial or viral products, IL-8 production is rapidly induced in many different cell types (3, 4). Feline IL-8 encodes a 101 amino acid (aa) precursor protein with a putative 22 aa signal peptide. It shares 61% and 76% aa sequence identity with human and canine IL-8, respectively.

References:

1. Van Damme, J. *et al.* (1998) *The Cytokine Handbook,* A.W. Thomson, ed., Academic Press, NY p. 271.
2. Heidemann, J. *et al.* (2003) J. Biol. Chem. **178**:8508.
3. Yang, M.P. *et al.* (2002) Vet. Immunol. Immunopathol. **86**:43.
4. Parhar, K. *et al.* (2003) Immunology **108**:502.