

DESCRIPTION

Species Reactivity	Feline
Specificity	Detects feline IL-8/CXCL8 in ELISAs. In sandwich immunoassays, no cross-reactivity with recombinant human IL-8/CXCL8, recombinant canine IL-8/CXCL8, or recombinant porcine IL-8/CXCL8 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 344615
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant feline IL-8/CXCL8 Ala23-Ala101 Accession # Q9XSX5.1
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Neutralization	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

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 activities 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.

PRODUCT SPECIFIC NOTICES

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