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Chicken Anti-Human IL-8 Polyclonal Antibody Datasheet

Product Name: pAb Chicken anti-human IL-8 (IgY fraction) Catalogue No.: AI60001 Quantity: 1.0 mg/vial

Description: Chicken anti-human Interleukin-8 polyclonal antibody (IgY fraction).

Product Type: Primary antibody

Target Protein: Human IL-8

Immunogen: Highly purified recombinant human IL-8

Source: Chicken

Specificity: This antibody recognizes human Interleukin-8 (IL-8)

Species Reactivity: Human, others not tested

Cross-reactivity: This polyclonal antibody exhibits no detectable cross-reactivity with human serum albumin, bovine serum albumin, and other cytokines tested such as IL-1 β , IL-16, TNF- α , GM-CSF, MCSF, bFGF and MIP-1 α .

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL

Storage: Store at -20°C

Research Area: Cytokine, interleukin and chemotaxis

Background: Interleukin 8 (IL-8), like IL-6, is secreted by macrophages and a variety of cells that express Toll-like receptors in response to the stimulation of pathogens. IL-8's primary function is to recruit neutrophils and other target cells through chemotaxis to the infected site to eliminate pathogens. IL-8 causes increased intracellular Ca²⁺, release of reactive oxygen species, and other physiological changes required for migration and phagocytosis. IL-8 is also known to promote angiogenesis.

Applications **ELISA:** The antibody when used at 2.6ng/mL can detect recombinant human IL-8 coated on ELISA plate.

Neutralization: Total chicken IgY fraction at the concentration of 50 μ g/mL showed 60% inhibition of 10ng/mL IL-8 induced IL8RB/293 cell migration

Western Blot: The antibody, when used at concentration of 0.26 μ g/mL will allow visualization of recombinant human IL-8.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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