

# Product Information

## Anti-Human IL-8 Protein A scaffold

Cat. No.: **AFB-34LY**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

The Anti-IL-8 Protein A Scaffold molecule was selected against human recombinant IL-8. Cross reactivity with other species has not been tested. The Anti-IL-8 Protein A Scaffold molecule is an ideal affinity ligand as capture reagent in ELISA. The Anti-IL-8 Protein A Scaffold molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating labeling with fluorescent dyes, biotin or coupling to matrices.

### Antigen Description

Interleukin 8 (IL-8) or CXCL8 is a non-glycosylated protein of 8 kDa belonging to the CXC family of chemokines. IL-8 is produced as a precursor protein of 99 amino acids and processing of the precursor results in variants of IL-8 that have various biological effects. It is produced by a number of cell types in response to inflammatory stimuli such as LPS, TNF and viruses. The IL-8 receptor belongs to the G-protein coupled receptor family and is expressed on many cell types including neutrophilic granulocytes. The role of IL-8 is primarily to attract neutrophilic granulocytes to the site of inflammation upon binding to the receptor. IL-8 causes a transient increase in cytosolic calcium levels, the release of enzymes from granules as well as enhanced expression of adhesion molecules in neutrophils.

### Specific Activity

Anti-IL-8 Protein A scaffold molecule binds to human IL-8. Cross reactivity with other species has not been tested.

### Source

Display library

### Species Reactivity

human

### Expression Host

E. coli

### Applications

ELISA

### Molecular Weight

13.8 kDa

### Storage

At +4°C is recommended for lyophilized protein. For reconstituted protein in physiological buffer, short-term storage at +4°C is recommended. For long-term storage, the protein solution should first be aliquoted and stored frozen at -20°C. There is no dec

## ANTIGEN GENE INFORMATION

### Gene Name

[CXCL8 chemokine \(C-X-C motif\) ligand 8 \[ Homo sapiens \(human\) \]](#)

### Official Symbol

CXCL8

### Synonyms

CXCL8; chemokine (C-X-C motif) ligand 8; IL8; NAF; GCP1; LECT; LUCT; NAP1; GCP-1; LYNAP; MDNCF; MONAP; NAP-1; interleukin-8; emoctakin; interleukin 8; T-cell chemotactic factor; neutrophil-activating peptide 1; beta-thromboglobulin-like protein; granulocyte

### Gene ID

[3576](#)

### mRNA Refseq

[NM\\_000584](#)

### Protein Refseq

[NP\\_000575](#)

### MIM

[146930](#)

### UniProt ID

P10145

### Chromosome Location

4q13-q21

### Pathway

ATF-2 transcription factor network; ATF4 activates genes; Amoebiasis; Bladder cancer; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cellular Senescence; Cellular responses to stress; Chagas disease (American trypanosomiasis).

### Function

chemokine activity; interleukin-8 receptor binding; protein binding.