

FPR1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17216c**Specification**

FPR1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P21462](#)**FPR1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2357**Other Names**

fMet-Leu-Phe receptor, fMLP receptor, N-formyl peptide receptor, FPR, N-formylpeptide chemoattractant receptor, FPR1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FPR1 Antibody (Center) Blocking Peptide - Protein Information**Name** FPR1**Function**

High affinity receptor for N-formyl-methionyl peptides (fMLP), which are powerful neutrophil chemotactic factors (PubMed: [2161213](http://www.uniprot.org/citations/2161213), PubMed: [2176894](http://www.uniprot.org/citations/2176894), PubMed: [10514456](http://www.uniprot.org/citations/10514456), PubMed: [15153520](http://www.uniprot.org/citations/15153520)). Binding of fMLP to the receptor stimulates intracellular calcium mobilization and superoxide anion release (PubMed: [2161213](http://www.uniprot.org/citations/2161213), PubMed: [1712023](http://www.uniprot.org/citations/1712023), PubMed: [15153520](http://www.uniprot.org/citations/15153520), PubMed: [15210802](http://www.uniprot.org/citations/15210802)). This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed: [1712023](http://www.uniprot.org/citations/1712023), PubMed: [10514456](http://www.uniprot.org/citations/10514456), PubMed: [15210802](http://www.uniprot.org/citations/15210802)). Receptor for TFAA4, mediates its effects on chemoattracting macrophages, promoting phagocytosis and increasing ROS release (PubMed: [25109685](http://www.uniprot.org/citations/25109685)). Receptor for

cathepsin CTSG, leading to increased phagocyte chemotaxis (PubMed:15210802).

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Internalizes in presence of its ligands, fMLP, TFAA4 and CTSG.

Tissue Location

Neutrophils.

FPR1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

FPR1 Antibody (Center) Blocking Peptide - Images**FPR1 Antibody (Center) Blocking Peptide - Background**

This gene encodes a G protein-coupled receptor of mammalian phagocytic cells that is a member of the G-protein-coupled receptor 1 family. The protein mediates the response of phagocytic cells to invasion of the host by microorganisms and is important in host defense and inflammation.

FPR1 Antibody (Center) Blocking Peptide - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)Huang, J., et al. Br. J. Cancer 102(6):1052-1060(2010)Segat, L., et al. Vaccine 28(10):2201-2206(2010)Zhu, X.L., et al. Beijing Da Xue Xue Bao 41(6):664-668(2009)Kobayashi, T., et al. J. Dent. Res. 88(12):1137-1141(2009)