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FPR1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17216c

Specification

FPR1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P21462
Other Accession	NP_002020.1, NP_001180235.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38446**
Antigen Region	**165-193**

FPR1 Antibody (Center) - Additional Information

Gene ID 2357

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

Target/Specificity
This FPR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-193 amino acids from the Central region of human FPR1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FPR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

FPR1 Antibody (Center) - Protein Information

Name FPR1

Function High affinity receptor for N-formyl-methionyl peptides (fMLP), which are powerful neutrophil chemotactic factors (PubMed:10514456, PubMed:15153520, PubMed:2161213, PubMed:2176894). Binding of fMLP to the receptor stimulates intracellular calcium mobilization and superoxide anion release (PubMed:15153520, PubMed:15210802, PubMed:1712023, PubMed:2161213). This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed:10514456, PubMed:1712023). Receptor for TAFA4, mediates its effects on chemoattracting macrophages, promoting phagocytosis and increasing ROS release (PubMed: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, TAFA4 and CTSG.

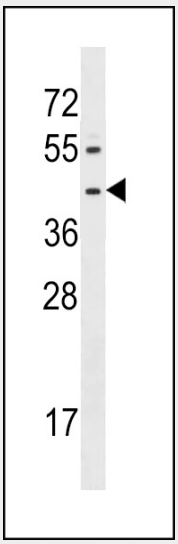
Tissue Location
Neutrophils.

FPR1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FPR1 Antibody (Center) - Images



FPR1 Antibody (Center) (Cat. #AP17216c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the FPR1 antibody detected the FPR1 protein (arrow).

FPR1 Antibody (Center) - 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) - 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)