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FPR1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51212

Product Information

Application	WB, IHC-P
Primary Accession	P21462
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38446

Additional Information

Gene ID	2357
Other Names	fMet-Leu-Phe receptor, fMLP receptor, N-formyl peptide receptor, FPR, N-formylpeptide chemoattractant receptor, FPR1
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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.

Background

High affinity receptor for N-formyl-methionyl peptides, which are powerful neutrophils chemotactic factors. Binding of FMLP to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system.

References

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Murphy P.M.,et al.J. Biol. Chem. 266:12560-12567(1991).
Bao L.,et al.Genomics 13:437-440(1992).
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