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FPR1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51950

Product Information

Application	WB
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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FPR1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
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.

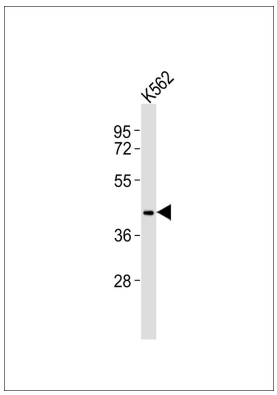
Background

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

Boulay F.,et al.Biochem. Biophys. Res. Commun. 168:1103-1109(1990).
Boulay F.,et al.Biochemistry 29:11123-11133(1990).
Murphy P.M.,et al.J. Biol. Chem. 266:12560-12567(1991).
Bao L.,et al.Genomics 13:437-440(1992).
Perez H.D.,et al.Submitted (MAR-1993) to the EMBL/GenBank/DDBJ databases.

Images



Anti-FPR1 Antibodyat 1:1000 dilution + K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.