



## FPR (H-230): sc-30016

### BACKGROUND

The N-formyl peptide receptor (FPR) is a chemotactic G protein-coupled receptor (GPCR) that is found on the surface of phagocytic leukocytes, such as neutrophils and monocytes. The human FPR family comprises three members, FPR, FPRL1 (also designated lipoxin A4 receptor) and FPRL2, and each family member contains specific residues, which are responsible for determining its ligand specificity. FPR, a seven transmembrane-domain receptor, primarily binds the chemoattractant N-formyl-methionyl-leucyl-phenylalanine (fMLP), which activates several biological processes, including chemotaxis, transcriptional activation, and actin reorganization. FPR also mediates the inhibition of neutrophil migration through binding to specific peptide fragments of annexin I, which causes calcium transients and affects inflammatory responses.

### REFERENCES

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5. Shen, W., Li, B., Wetzel, M.A., Rogers, T.J., Henderson, E.E., Su, S.B., Gong, W., Le, Y., Sargeant, R., Dimitrov, D.S., Oppenheim, J.J., and Wang, J.M. 2000. Down-regulation of the chemokine receptor CCR5 by activation of chemotactic formyl peptide receptor in human monocytes. *Blood* 96: 2887-2894.
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### SOURCE

FPR (H-230) is a rabbit polyclonal antibody raised against amino acids 71-300 mapping within an internal region of FPR of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### APPLICATIONS

FPR (H-230) is recommended for detection of FPR and FPRL1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FPR siRNA (h): sc-40121, FPR siRNA (m): sc-40122, FPR shRNA Plasmid (h): sc-40121-SH, FPR shRNA Plasmid (m): sc-40122-SH, FPR shRNA (h) Lentiviral Particles: sc-40121-V and FPR shRNA (m) Lentiviral Particles: sc-40122-V.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.