

FPR (T-15): sc-65111

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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CHROMOSOMAL LOCATION

Genetic locus: Fpr1 (mouse) mapping to 17 A3.2.

SOURCE

FPR (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of FPR of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-65111 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FPR (T-15) is recommended for detection of FPR of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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 (m): sc-40122, FPR shRNA Plasmid (m): sc-40122-SH and FPR shRNA (m) Lentiviral Particles: sc-40122-V.

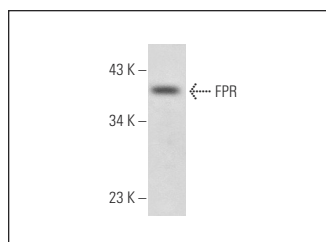
Molecular Weight of FPR: 38 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FPR (T-15): sc-65111. Western blot analysis of FPR expression in NIH/3T3 whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.