

Anti-GPR15 (NT) BOB

CATALOG NO.: PX175A

SIZE: 100 µg

PX175B

SIZE: 0.5 mg

BACKGROUND:

Human immunodeficiency virus (HIV) and related viruses require coreceptors to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. The genes encoding human and monkey GPR15/BOB (for G protein-coupled receptor 15 and brother of Bonzo, respectively,) were recently cloned (1,2). This novel G protein-coupled receptor serves as coreceptor for simian immunodeficiency virus (SIV), and for strains of HIV-2 and M-tropic HIV-1 (2,3). The ligand for GPR15 has not been identified yet.

SOURCE:

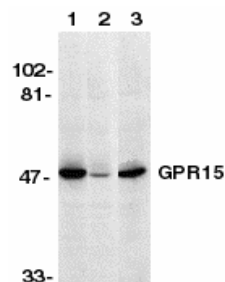
Rabbit anti-GPR15/BOB polyclonal antibody was raised against a peptide corresponding to amino acids 13 to 28 of human GPR15 (1). The sequence differs from those of African green monkey and pig-tailed macaque BOB by one amino acid (2)

APPLICATION:

This polyclonal antibody can be used for detection of GPR15/BOB by Western blot at 1:500 to 1:2000 dilution. Jurkat or A549 cell lysate can be used as positive control and an approximately 50 kDa band can be detected. It is human, mouse, and rat reactive. For research use only.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of GPR15 in human heart lysate with anti-GPR15 (NT) in the absence (lane 1) or presence of specific peptide (lane 2) or non-related peptide (lane 3).

REFERENCES:

1. Heiber M, Marchese A, Nguyen T, Heng HH, George SR, O'Dowd BF. A novel human gene encoding a G-protein-coupled receptor (GPR15) is located on chromosome 3. *Genomics* 1996;32:462-5
2. Deng HK, Unutmaz D, KewalRamani VN, Littman DR. Expression cloning of new receptors used by simian and human immunodeficiency viruses. *Nature* 199;388:296-300
3. Farzan M, Choe H, Martin K, Marcon L, Hofmann W, Karlsson G, Sun Y, Barrett P, Marchand N, Sullivan N, Gerard N, Gerard C, Sodroski J. Two orphan seven-transmembrane segment receptors which are expressed in CD4-positive cells support simian immunodeficiency virus infection. *J Exp Med* 1997;186:405-11

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



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