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GPR32 Polyclonal Antibody

Catalog Number **PA3-021**

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	KLH conjugated Cys-LARAFGEEEFLSS-Abu-PRGNAPRE
Conjugate	Unconjugated
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	0.05% sodium azide
Storage Conditions	-20°C

Species Reactivity	
Species reactivity	Human
Published species	Hamster, Cat, Human

Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	1:3000
Western Blot (WB)	1:1,000

Published Applications	
Western Blot (WB)	See 4 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

IHC (P) analysis shows positive staining of GPR32 in human small intestine tissue neuroendocrine cells. WB analysis shows GPR32 in glycoprotein-enriched fractions from GPR32 overexpressing 293 cells. Additional unknown bands at ~30kD and ~130kD were also detected. While GPR32 has a theoretical MW of ~ 40kD, the observed band in a WB runs at ~60kD due to enrichment of the glycosylated receptor.

Background/Target Information

The G-protein-coupled receptor (GPCR) superfamily is comprised of an estimated 600-1,000 members and is the largest known class of molecular targets with proven therapeutic value. The intronless GPR32 gene encodes an orphan G protein-coupled receptor that binds to resolvin D1 and lipoxin A4. Resolvin D1 binding to GPR32 has been linked to resolution of pulmonary inflammation, suppression of TGFbeta induced epithelial mesenchymal transition of A549 lung cancer cells. Resolvins are being evaluated as new drug candidates acting at the resolution phase of chronic inflammation.

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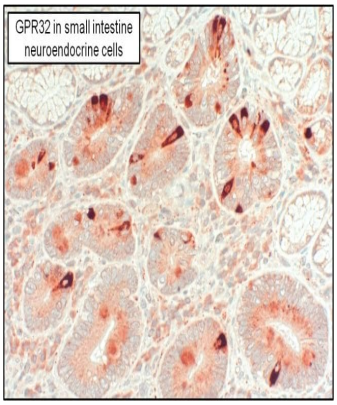
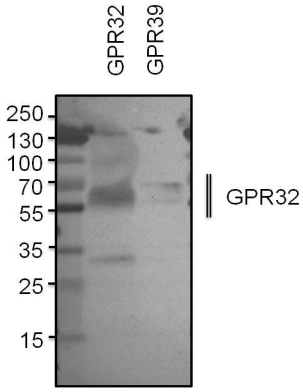
Product Images For GPR32 Polyclonal Antibody



GPR32 Antibody (PA3-021) in IHC (P)

Immunohistochemistry analysis of GPR32 was performed on neuroendocrine cells in human small intestine tissue. To expose target proteins, antigen retrieval was performed by microwaving tissues for 20 minutes in 10mM sodium citrate buffer (pH 6.0). Tissue slides were probed with a GPR32 polyclonal antibody (Product # PA3-021) at a dilution of 1: 3000, overnight at 4C in a humidified chamber. Tissues were washed, and detection was performed using an ABC kit composed of biotinylated goat anti-rabbit IgG, peroxidase-conjugated avidin, and 3-amino-9-ethylcarbazole (AEC) substrate in acetate buffer. Tissues were counterstained with hematoxylin and dehydrated to prep for mounting.



GPR32 Antibody (PA3-021) in WB

Western blot analysis of GPR32 was performed by loading equal amounts of wheat germ lectin agarose bead enriched GPR receptor fractions from GPR32 or GPR39 transfected HEK293 lysates and 10 µL of PageRuler Plus Prestained Protein Ladder (Product # 26619) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane using the G2 Fast Blotter (Product # 62288), and blocked with StartingBlock T20 (TBS) Blocking Buffer (Product # 37543) for 1 hour at room temperature. GPR32 was detected at ~60 kDa using a GPR32 polyclonal antibody (Product # PA3-021) at a dilution of 1:1000 in StartingBlock T20 (TBS) Blocking Buffer (Product # 37543) overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-rabbit IgG secondary antibody (Product # 31460) at a dilution of 1:20,000 for 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075). Images were acquired on a Thermo Scientific myECL Imager (Product # 62236).

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PubMed References For GPR32 Polyclonal Antibody

4 Western Blot References

Species / Dilution	Summary
Human / Not Cited	PA3021 was used in western blot to identify a link between p105Rb and cyclophilin A in T cell activation Journal of cellular biochemistry (2003; 86: 630) **"Interaction of the retinoblastoma gene product, RB, with cyclophilin A negatively affects cyclosporin-inhibited NFAT signaling."** Author(s):Cui Y,Mirkia K,Florence Fu YH,Zhu L,Yokoyama KK,Chiu R PubMed Article URL:http://dx.doi.org/10.1002/jcb.10253
Hamster / Not Cited	PA3-021 was used in Western Blotting to study how host proteins in the membrane are dealt with by the Human immunodeficiency virus type 1 viral protein, Pr55(gag), during budding. Journal of virology (2004; 78: 5686) **"Passive and active inclusion of host proteins in human immunodeficiency virus type 1 gag particles during budding at the plasma membrane."** Author(s):Hammarstedt M,Garoff H PubMed Article URL:http://dx.doi.org/10.1128/JVI.78.11.5686-5697.2004
Human / Not Cited	PA3-021 was used in Western Blotting to indicate that HIV-1 Gag directly contacts residues in the hydrophobic pocket of cyclophilin A. Journal of virology (1997; 71: 2107) **"The hydrophobic pocket of cyclophilin is the binding site for the human immunodeficiency virus type 1 Gag polyprotein."** Author(s):Braaten D,Ansari H,Luban J PubMed Article URL:http://dx.doi.org/10.1128/JVI.71.3.2107-2113.1997
Cat / 1:5000	PA3021 was used in western blot to compare gene expression patterns between normal control and reorganizing visual cortex using cats The European journal of neuroscience (2003; 18: 61) **"Differential display implicates cyclophilin A in adult cortical plasticity."** Author(s):Arckens L,Van der Gucht E,Van den Bergh G,Massie A,Leysen I,Vandenbussche E,Eysel UT,Huybrechts R, Vandesande F PubMed Article URL:http://dx.doi.org/10.1046/j.1460-9568.2003.02726.x

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