10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPR78 Rabbit pAb

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Catalog # AP56940

Product Information

Application	WB
Primary Accession	Q96P69
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39332
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPR78
Epitope Specificity	201-300/363
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene belongs to the G protein-coupled receptor family, which contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. This is an orphan receptor, which displays significant level of constitutive activity. Association analysis shows preliminary evidence for the involvement of this gene in susceptibility to bipolar affective disorder and schizophrenia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]

Additional Information

Gene ID	27201
Other Names	G-protein coupled receptor 78, GPR78
Target/Specificity	High level of expression in placenta. Expressed throughout the brain at low level. No expression detected in skeletal muscle, lung, heart, liver, pancreas, or kidney.
Dilution	WB=1:500-2000,Flow-Cyt=1 μg /test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

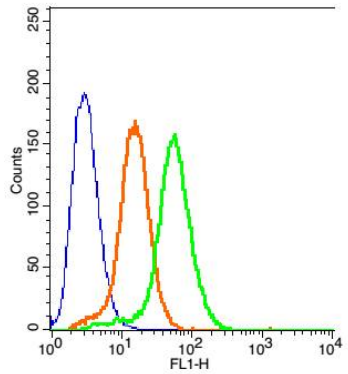
Protein Information

Name	GPR78
Function	Orphan receptor. Displays a significant level of constitutive activity. Its effect is mediated by G(s)-alpha protein that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP.
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	High level of expression in placenta. Expressed throughout the brain at low level. No expression detected in skeletal muscle, lung, heart, liver, pancreas, or kidney

Background

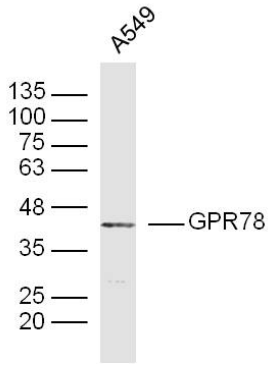
The protein encoded by this gene belongs to the G protein-coupled receptor family, which contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. This is an orphan receptor, which displays significant level of constitutive activity. Association analysis shows preliminary evidence for the involvement of this gene in susceptibility to bipolar affective disorder and schizophrenia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]

Images



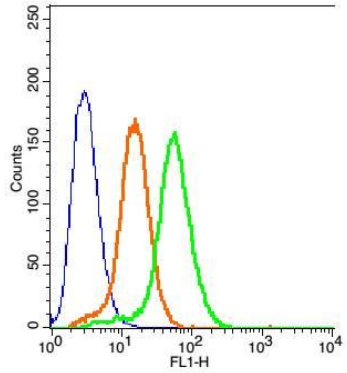
Blank control: 293T Cells(blue). Primary Antibody: Rabbit Anti-GPR78/AF488 Conjugated antibody (AP56940-AF488), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF488(orange) ,used under the same conditions.

Protocol
The cells were fixed with 2% paraformaldehyde (10 min) . The cells were washed twice with 1 X PBS. The cells were incubated in 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions followed by the incubated with antibody (AP56940-AF488, 1 µg /1x10^6 cells) for 30 min on ice. Acquisition of 20,000 events was performed.

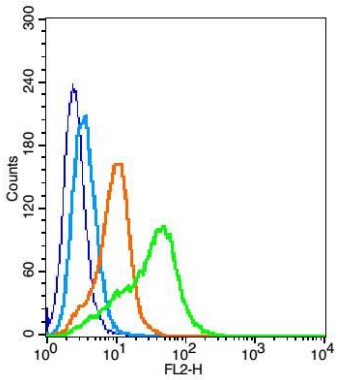


Sample:
A549 Cell (Human) Lysate at 30 ug
Primary: Anti-GPR78(AP56940)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 39 kD
Observed band size: 39 kD

Blank control: 293T Cells(blue).
Primary Antibody: Rabbit Anti-GPR78/AF488 Conjugated antibody (AP56940-AF488), Dilution: 1 µg in 100 µL 1X



PBS containing 0.5% BSA;
Isotype Control Antibody: Rabbit IgG/AF488(orange) ,used under the same conditions.
Protocol
The cells were fixed with 2% paraformaldehyde (10 min) . The cells were washed twice with 1 X PBS. The cells were incubated in 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions followed by the incubated with antibody (AP56940-AF488, 1 µg /1x10^6 cells) for 30 min on ice. Acquisition of 20,000 events was performed.



Blank control (blue line): U937 (blue).
Primary Antibody (green line): Rabbit Anti-GPR7 antibody (AP56940)
Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
Protocol
The cells were fixed with 2% paraformaldehyde for 10 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.