

# GPR78 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56940

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q96P69</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	39332
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human GPR78
<b>Epitope Specificity</b>	201-300/363
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cell membrane; Multi-pass membrane protein.
<b>SIMILARITY</b>	Belongs to the G-protein coupled receptor 1 family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

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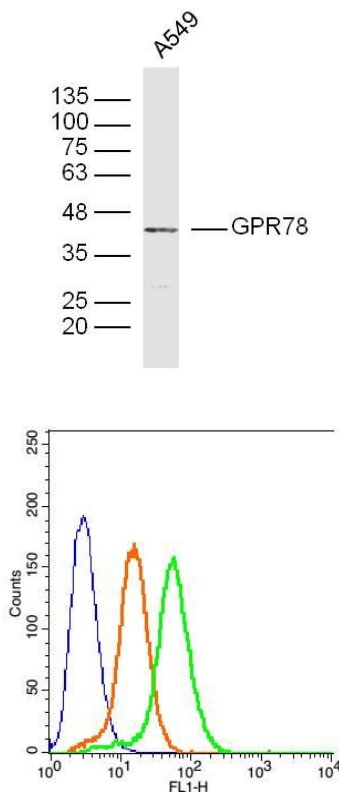
<b>Gene ID</b>	27201
<b>Other Names</b>	G-protein coupled receptor 78, GPR78
<b>Target/Specificity</b>	High level of expression in placenta. Expressed throughout the brain at low level. No expression detected in skeletal muscle, lung, heart, liver, pancreas, or kidney.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 $\times$ 10 <sup>5</sup> /test,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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

<b>Name</b>	GPR78
<b>Function</b>	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.
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein.
<b>Tissue Location</b>	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

## Images



### 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<sup>6</sup> 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<sup>6</sup> cells;

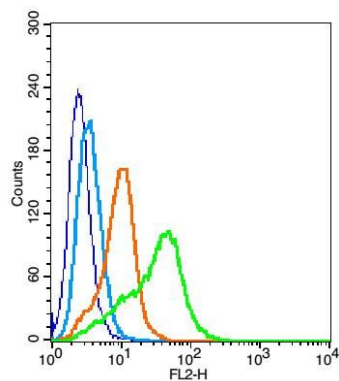
Isotype Control Antibody (orange line): Rabbit IgG .

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.