10320 Camino Santa Fe, Suite G
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GPR102 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55963

Specification

GPR102 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q969N4
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**38 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human GPR102**
Epitope Specificity	**1-100/342**
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
Trace amines are endogenous molecules structurally related to classical biogenic amines that are linked to psychiatric conditions. A family of G-protein coupled receptors referred to as trace-amine-associated receptors (TAAR) are activated by trace amines and are present in very low levels in mammalian tissue. TaRs contain several structural features that are similar to the rhodopsin ∫-adrenergic receptor superfamily, including the positions of the seven transmembrane regions that provide common ligand-binding pockets as well as the short N- and C-terminal domains. TAAR proteins are potential targets for drugs of abuse, such as amphetamine and MDMA, as well as neuropsychiatric disorders including schizophrenia, depression, and attention deficit disorder.

GPR102 Polyclonal Antibody - Additional Information

Gene ID 83551

Other Names
Trace amine-associated receptor 8, TaR-8, Trace amine receptor 8, G-protein coupled receptor 102, Trace amine receptor 5, TaR-5, TAAR8, GPR102, TA5, TAR5, TRAR5

Target/Specificity
Expressed in kidney and amygdala. Not expressed in other tissues or brain regions tested.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

GPR102 Polyclonal Antibody - Protein Information

Name TAAR8

Synonyms GPR102, TA5, TAR5, TRAR5

Function
Olfactory receptor specific for trace amines (By similarity). Trace amine compounds are enriched in animal body fluids and act on trace amine-associated receptors (TAARs) to elicit both intraspecific and interspecific innate behaviors (By similarity). Ligand-binding causes a conformation change that triggers signaling via G alpha proteins, possibly G(i)/G(o) G alpha proteins (PubMed:25391046).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in kidney and amygdala. Not expressed in other tissues or brain regions tested.

GPR102 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR102 Polyclonal Antibody - Images

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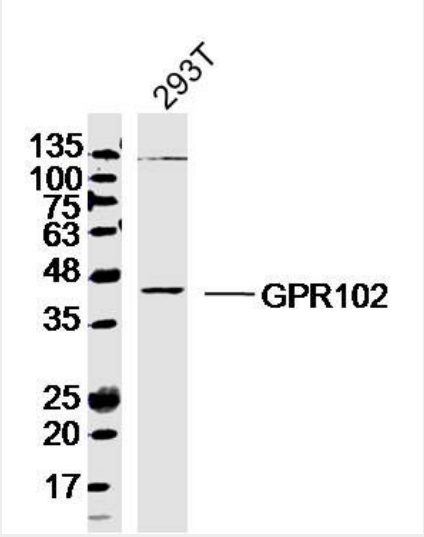

Sample: 293T Cell (Human) Lysate at 40 ug
Primary: Anti-GPR102 (bs-15355R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 38 kD
Observed band size: 42 kD