

**Goat Anti-GPR3 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1494a****Specification**

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**Goat Anti-GPR3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P46089</a>
Other Accession	<a href="#">NP_005272</a> , <a href="#">2827</a> , <a href="#">14748 (mouse)</a> , <a href="#">266769 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	35010

**Goat Anti-GPR3 Antibody - Additional Information****Gene ID** 2827**Other Names**

G-protein coupled receptor 3, ACCA orphan receptor, GPR3, ACCA

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-GPR3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-GPR3 Antibody - Protein Information****Name** GPR3**Synonyms** ACCA**Function**

Constitutively active G-protein coupled receptor that maintains high 3'-5'-cyclic adenosine monophosphate (cAMP) levels that plays a role in several processes including meiotic arrest in oocytes or neuronal development via activation of numerous intracellular signaling pathways. Acts as an essential activator of thermogenic adipocytes and drives thermogenesis via its intrinsic G(s)-

coupling activity without the requirement of a ligand (PubMed:<a href="http://www.uniprot.org/citations/34048700" target="\_blank">34048700</a>). Has a potential role in modulating a number of brain functions, including behavioral responses to stress (By similarity), amyloid-beta peptide generation in neurons (By similarity). Stimulates neurite outgrowth in cerebellar granular neurons modulated via PKA, ERK, and most strongly PI3K-mediated signaling pathways (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein.

#### **Tissue Location**

Expressed predominantly in the central nervous system, and at low levels in the lung, kidney, testis, ovary and eye Highly expressed in regions of the brain implicated in the Alzheimer disease

### **Goat Anti-GPR3 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 Cytometry](#)
- [Cell Culture](#)

### **Goat Anti-GPR3 Antibody - Images**



AF1494a (0.3 µg/ml) staining of Human Brain (Frontal Cortex) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **Goat Anti-GPR3 Antibody - References**

GPR3 may not be a potential candidate gene for premature ovarian failure. Zhou S, et al. Reprod Biomed Online, 2010 Jan. PMID 20158988.

Oocyte-specific G-protein-coupled receptor 3 (GPR3): no perturbations found in 82 women with premature ovarian failure (first report). Kovanci E, et al. Fertil Steril, 2008 Oct. PMID 17953967.

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Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Fluid shear stress differentially regulates gpr3, gpr6, and gpr12 expression in human umbilical vein endothelial cells. Uhlenbrock K, et al. Cell Physiol Biochem, 2003. PMID 12649592.