

**GPR34 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12840C**

**Specification**

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**GPR34 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O9UPC5</a>
Other Accession	<a href="#">O9R1K6</a> , <a href="#">NP_001091048.1</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>43860</b>
Antigen Region	<b>232-261</b>

**GPR34 Antibody (Center) - Additional Information**

**Gene ID** 2857

**Other Names**

Probable G-protein coupled receptor 34, GPR34

**Target/Specificity**

This GPR34 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 232-261 amino acids from the Central region of human GPR34.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

GPR34 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPR34 Antibody (Center) - Protein Information**

**Name** GPR34

**Function** G-protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response (PubMed:[16460680](#)). Acts a damage-sensing receptor that triggers tissue repair upon recognition of dying neutrophils (By similarity). Mechanistically, apoptotic neutrophils release lysophosphatidylserine that are recognized by type 3 innate lymphoid cells (ILC3s) via GPR34, which activates downstream PI3K-AKT and RAS-ERK signaling pathways leading to STAT3 activation and IL-22 production (By similarity). Plays an important role in microglial function, controlling morphology and phagocytosis (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

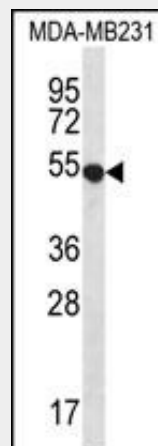
Broadly expressed. Highly expressed on mast cells (PubMed:[16460680](#)).

**GPR34 Antibody (Center) - Protocols**

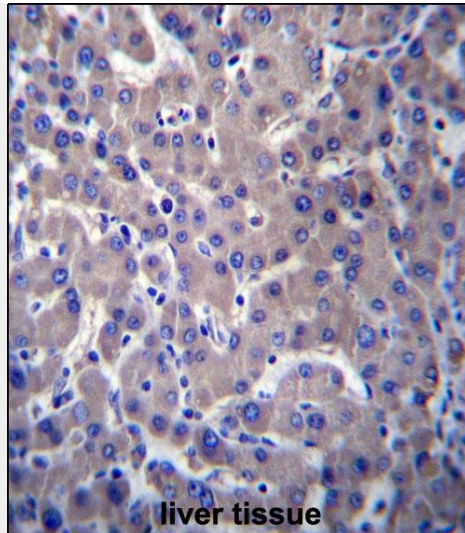
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GPR34 Antibody (Center) - Images**



GPR34 Antibody (Center) (Cat. #AP12840c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the GPR34 antibody detected the GPR34 protein (arrow).



GPR34 Antibody (Center) (Cat. #AP12840c) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GPR34 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **GPR34 Antibody (Center) - Background**

G protein-coupled receptors (GPCRs), such as GPR34, are integral membrane proteins containing 7 putative transmembrane domains (TMs). These proteins mediate signals to the interior of the cell via activation of heterotrimeric G proteins that in turn activate various effector proteins, ultimately resulting in a physiologic response.

#### **GPR34 Antibody (Center) - References**

Engemaier, E., et al. Genomics 87(2):254-264(2006)  
Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)  
Jacobi, F.K., et al. Hum. Genet. 107(1):89-91(2000)  
Schoneberg, T., et al. Biochim. Biophys. Acta 1446 (1-2), 57-70 (1999) :  
Marchese, A., et al. Genomics 56(1):12-21(1999)

#### **GPR34 Antibody (Center) - Citations**

- [Topogenesis and cell surface trafficking of GPR34 are facilitated by positive-inside rule that effects through a tri-basic motif in the first intracellular loop.](#)