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

Anti-GPR34 Antibody

Catalog # AP51242

Product Information

Application	WB
Primary Accession	Q9UPC5
Reactivity	Human, Mouse, Rat, Pig, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43860

Additional Information

Gene ID	2857
Other Names	Probable G-protein coupled receptor 34
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR34. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

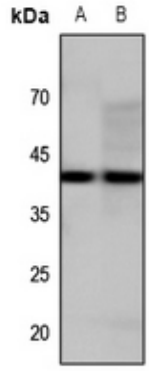
Protein Information

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 lysophosphatydilserine 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).

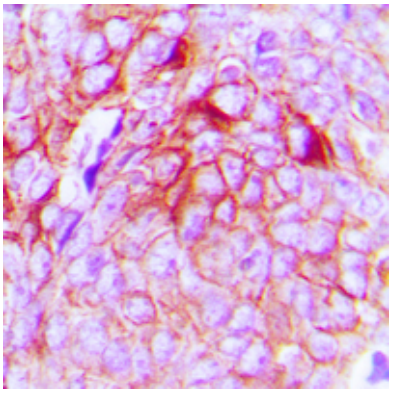
References

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Marchese A.,et al.Genomics 56:12-21(1999).
Jacobi F.K.,et al.Hum. Genet. 107:89-91(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

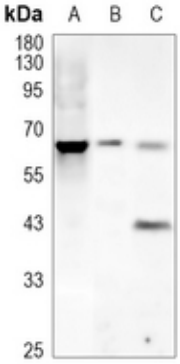
Images



Western blot analysis of GPR34 expression in mouse brain (A), mouse kidney (B) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 44 kD)



Immunohistochemical analysis of GPR34 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western blot analysis of GPR34 expression in U87 (A), mouse liver (B), mouse muscle (C) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 44, 65 kD)

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