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GPR34 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51242

Product Information

Application	WB, IHC-P, IP
Primary Accession	Q9UPC5
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43860

Additional Information

Gene ID	2857
Other Names	Probable G-protein coupled receptor 34, GPR34
Dilution	WB~~1/500 - 1/1000 IHC-P~~N/A IP~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
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).

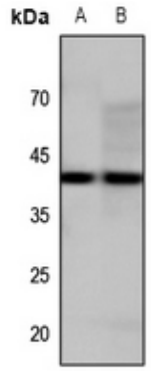
Background

Orphan receptor.

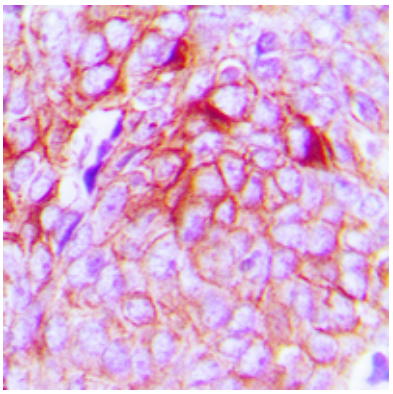
References

Schoneberg T.,et al.Biochim. Biophys. Acta 1446:57-70(1999).
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.



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.