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GPR45 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12248c

Specification

GPR45 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y5Y3
Other Accession	Q9EQQ4, NP_009158.3
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**41967**
Antigen Region	**121-149**

GPR45 Antibody (Center) - Additional Information

Gene ID 11250

Other Names
Probable G-protein coupled receptor 45, PSP24-1, PSP24-alpha, GPR45

Target/Specificity
This GPR45 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-149 amino acids from the Central region of human GPR45.

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
GPR45 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR45 Antibody (Center) - Protein Information

Name GPR45

Function Orphan receptor. May play a role in brain function.

Cellular Location
Cell membrane; Multi-pass membrane protein.

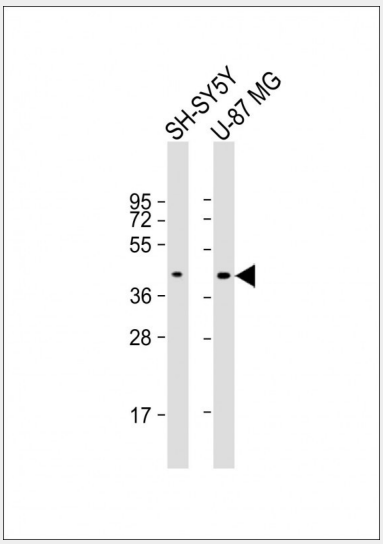
Tissue Location
Expressed in brain; detected in the basal forebrain, frontal cortex, and caudate, but not in thalamus, hippocampus, or putamen

GPR45 Antibody (Center) - Protocols

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

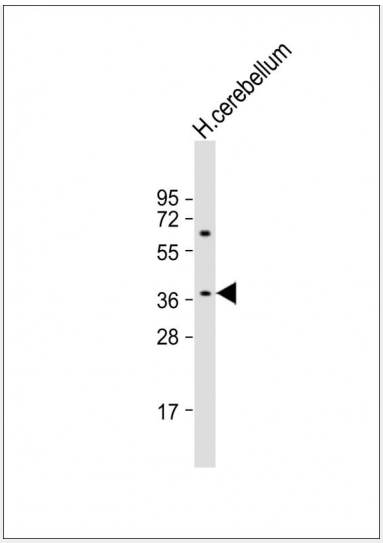
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR45 Antibody (Center) - Images

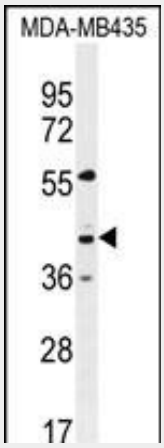


All lanes : Anti-GPR45 Antibody (Center) at 1:2000 dilution Lane 1: SH-SY5Y whole cell lysate Lane 2: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

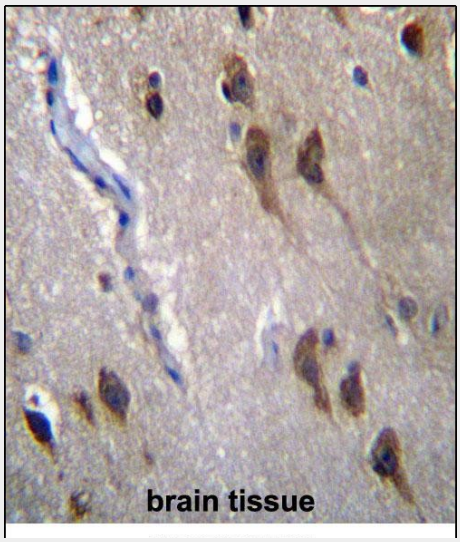
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Anti-GPR45 Antibody (Center) at 1:2000 dilution + human cerebellum lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



GPR45 Antibody (Center) (Cat. #AP12248c) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the GPR45 antibody detected the GPR45 protein (arrow).



GPR45 Antibdy (Center) (Cat. #AP12248c)immunohistochemistry analysis in formalin fixed and

paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GPR45 Antibdy (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

GPR45 Antibody (Center) - Background

This intronless gene encodes a member of the G protein-coupled receptor (GPCR) family. Members of this protein family contain seven putative transmembrane domains and may mediate signaling processes to the interior of the cell via activation of heterotrimeric G proteins. This protein may function in the central nervous system.

GPR45 Antibody (Center) - References

Salonen, J.T., et al. Am. J. Hum. Genet. 81(2):338-345(2007) Wu, C., et al. Proteomics 7(11):1775-1785(2007) Hillier, L.W., et al. Nature 434(7034):724-731(2005) Kawasawa, Y., et al. Biochem. Biophys. Res. Commun. 276(3):957-964(2000) Kawasawa, Y., et al. Biochem. Biophys. Res. Commun. 276(3):952-956(2000)