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Anti-GPR52 Antibody

Catalog # AP59776

Product Information

Application	WB, IF/IC
Primary Accession	Q9Y2T5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41354

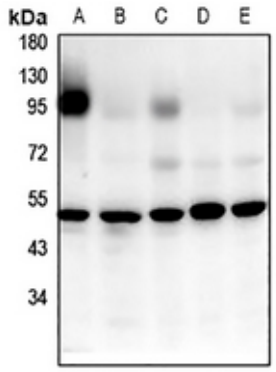
Additional Information

Gene ID	9293
Other Names	Probable G-protein coupled receptor 52
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GPR52. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IF/IC~~N/A
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

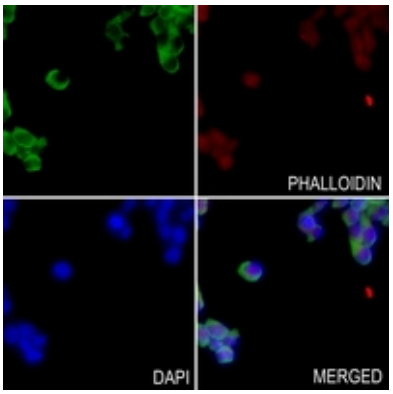
Protein Information

Name	GPR52 {ECO:0000303|PubMed:9931487, ECO:0000312|HGNC:HGNC:4508}
Function	Gs-coupled receptor activated by antipsychotics reserpine leading to an increase in intracellular cAMP and its internalization (PubMed:24587241). May play a role in locomotor activity through modulation of dopamine, NMDA and ADORA2A-induced locomotor activity. These behavioral changes are accompanied by modulation of the dopamine receptor signaling pathway in striatum (PubMed:24587241). Modulates HTT level via cAMP-dependent but PKA independent mechanisms throught activation of RAB39B that translocates HTT to the endoplasmic reticulum, thus avoiding proteasome degradation (PubMed:25738228).
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Expressed in brain, especially in striatum.

Images



Western blot analysis of GPR52 expression in BV2 (A), PC12 (B), A549 (C), HepG2 (D), HCT116 (E) whole cell lysates. (Predicted band size: 41 kD; Observed band size: 50 kD)



Immunofluorescent analysis of GPR52 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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