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MCHR1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10688b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99705
Other Accession	P97639, Q8JZL2, NP_005288.3
Reactivity	Human, Mouse, Rat
Predicted	Mouse, Rat, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28532
Calculated MW	38940
Antigen Region	342-353

Additional Information

Gene ID	2847
Other Names	Melanin-concentrating hormone receptor 1, MCH receptor 1, MCH-R1, MCHR-1, G-protein coupled receptor 24, MCH-1R, MCH1R, MCHR, SLC-1, Somatostatin receptor-like protein, MCHR1, GPR24, SLC1
Target/Specificity	This MCHR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-422 amino acids from the C-terminal region of human MCHR1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	MCHR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MCHR1 (HGNC:4479)

Synonyms	GPR24, SLC1
Function	G protein-coupled receptor for melanin-concentrating hormone (MCH) that signals primarily through G(i/o) to inhibit adenylyl cyclase, and can additionally couple to G(q/11) to stimulate phospholipase C and mobilize intracellular calcium (PubMed:10421367, PubMed:15340116, PubMed:38710677, PubMed:39616153). Predominantly localized within the central nervous system where it regulates various physiological processes including feeding behavior, energy homeostasis, stress/anxiety-related behaviors and sleep (PubMed:10421367, PubMed:15166293, PubMed:15941924).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Highest level in brain, particularly in the frontal cortex and hypothalamus, lower levels in the liver and heart

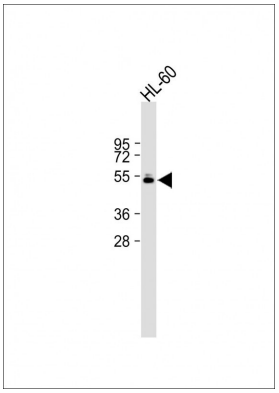
Background

The protein encoded by this gene, a member of the G protein-coupled receptor family 1, is an integral plasma membrane protein which binds melanin-concentrating hormone. The encoded protein can inhibit cAMP accumulation and stimulate intracellular calcium flux, and is probably involved in the neuronal regulation of food consumption. Although structurally similar to somatostatin receptors, this protein does not seem to bind somatostatin.

References

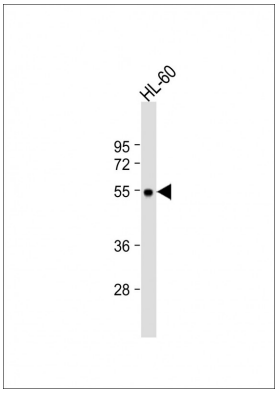
Miyamoto-Matsubara, M., et al. Ann. N. Y. Acad. Sci. 1200, 112-119 (2010) :
Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)
Miller, C.L., et al. Schizophr. Res. 113 (2-3), 259-267 (2009) :
Gavalas, N.G., et al. Exp. Dermatol. 18(5):454-463(2009)
de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)

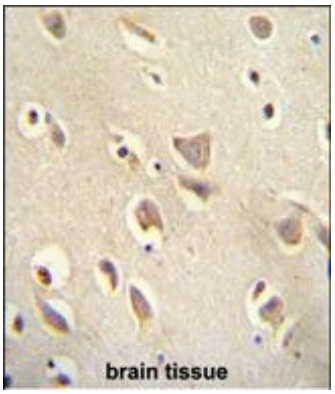
Images



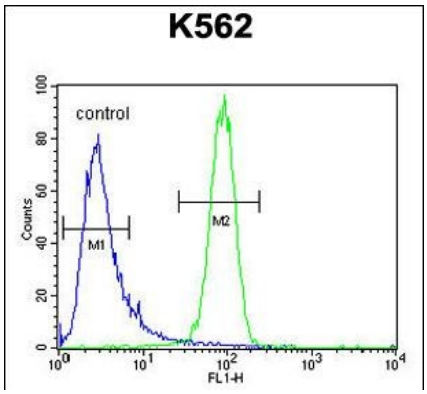
All lanes : Anti-MCHR1 Antibody (C-term) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 52kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-MCHR1 Antibody (C-term) at 1:1000 dilution + HL-60 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 : 46 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

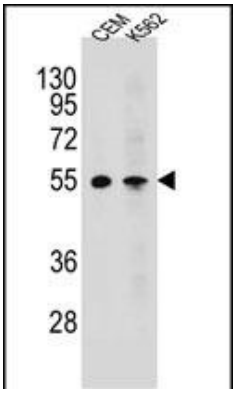




MCHR1 antibody (C-term) (Cat. #AP10688b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MCHR1 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



MCHR1 Antibody (C-term) (Cat. #AP10688b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



MCHR1 Antibody (C-term) (Cat. #AP10688b) western blot analysis in CEM,K562 cell line lysates (35ug/lane).This demonstrates the MCHR1 antibody detected the MCHR1 protein (arrow).

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