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

Anti-MCH Receptor 1 Antibody

Catalog # AP54085

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q969V1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38849

Additional Information

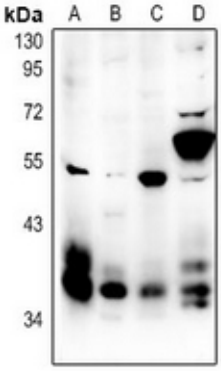
Gene ID	84539
Other Names	GPR145; SLT; Melanin-concentrating hormone receptor 2; MCH receptor 2; MCH-R2; MCHR-2; G-protein coupled receptor 145; GPRv17; MCH-2R; MCH2; MCH2R
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MCH Receptor 1. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1:100~500 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

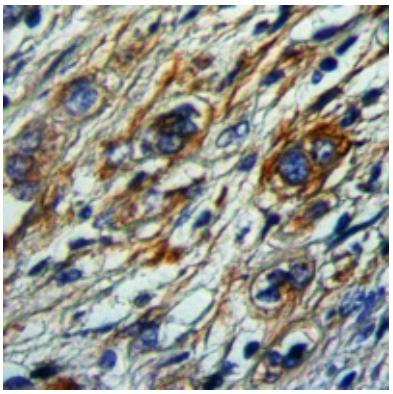
Name	MCHR2 (HGNC:20867)
Function	G protein-coupled receptor for the neuropeptide melanin- concentrating hormone (MCH). Upon ligand binding, couples to G(q/11), leading to activation of phospholipase C and intracellular calcium mobilization (PubMed:11274220, PubMed:11404457, PubMed:11459838, PubMed:15340116, PubMed:38710677). The physiological roles mediated by this receptor remain unclear, and its contribution to specific biological processes has not been conclusively established (Probable). Expression of this receptor is restricted to the brain of non-rodent mammals; a functional MCHR2 gene is absent or pseudogenized in rodents (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Specifically expressed in the brain (PubMed:11274220, PubMed:11355873, PubMed:11404457, PubMed:11459838) In the brain, highly expressed in

cerebral cortex, hippocampus and amygdala (PubMed:11355873, PubMed:11459838). Also expressed in the arcuate nucleus and the ventral medial hypothalamus (PubMed:11404457) No expression detected in the cerebellum and thalamus (PubMed:11355873).

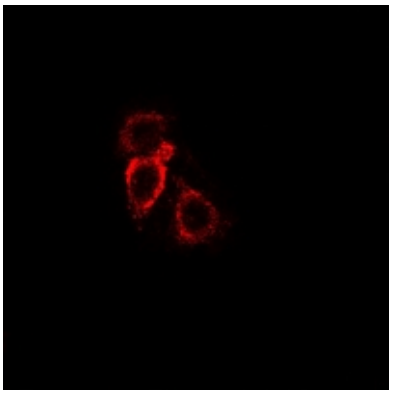
Images



Western blot analysis of MCH Receptor 1 expression in rat testis (A), BV2 (B), LOVO (C), HCT116 (D) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 38 kD)



Immunohistochemical analysis of MCH Receptor 1 staining in human kidney 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.



Immunofluorescent analysis of MCH Receptor 1 staining in LOVO 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 Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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