

MC4R Polyclonal Antibody

Catalog NumberPA5-33926

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human, Non-human primate, Sheep, Rabbit
Host/Isotope	Rabbit / IgG		
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	Dilution *2.5-5 µg/mL
Immunogen	Synthetic 16 amino acid peptide from 3rd cytoplasmic domain of human MC4 Receptor.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Sheep, Rabbit (100%).

**Background/Target Information**

Expression of MC4R has been reported in brain. Unlike the other melanocortin receptors, MC4R is not expressed in adrenal cortex or in melanocytes. G-protein Coupled Receptors (GPCRs) comprise one of the largest families of signaling molecules with more than a thousand members currently predicted to exist. All GPCRs share a structural motif consisting of seven membrane-spanning helices, and exist in both active and inactive forms. An array of activating ligands participate in the conformation of GPCRs which leads to signaling via G-proteins and downstream effectors. Ongoing studies have also shown the vast series of reactions which participate in the negative regulation of GPCRs. This "turn-off" activity has tremendous implications for the physiological action of the cell, and continues to drive pharmacological research for new drug candidates. Two blockbuster drugs which have been developed as GPCR-targeted pharmaceuticals are Zyprexa (Eli Lilly) and Claritin (Schering-Plough) which have multi-billion dollar shares of the mental health and allergy markets, respectively.

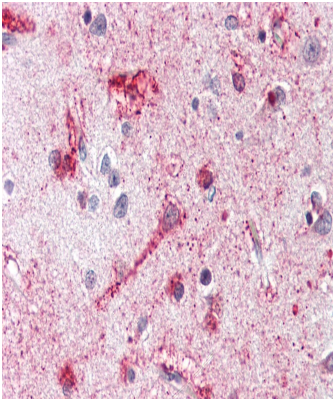
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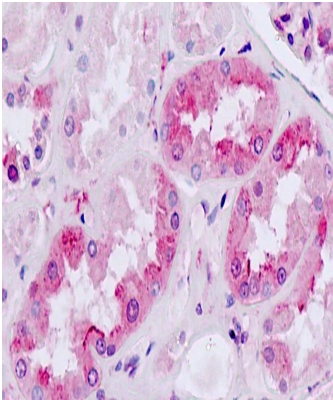
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Product Images For MC4R Polyclonal Antibody



**MC4R Antibody (PA5-33926) in IHC (P)**  
Immunohistochemistry analysis of MC4R in human brain neurons and glia. Samples were incubated with MC4R polyclonal antibody (Product # PA5-33926). Formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



**MC4R Antibody (PA5-33926) in IHC (P)**  
Immunohistochemistry analysis of MC4R in Human Kidney. Samples were incubated with MC4R polyclonal antibody (Product # PA5-33926). formalin-fixed paraffin-embedded .

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