

## **Human/Mouse/Rat MCHR1 Antibody**

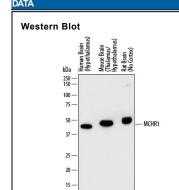
Monoclonal Mouse IgG<sub>2A</sub> Clone # 851047 Catalog Number: MAB7938

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human MCHR1 in ELISAs. Detects human, mouse and rat MCHR1 in Western Blots		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 851047		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human MCHR1 Ser2-Pro113 Accession # Q99705		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

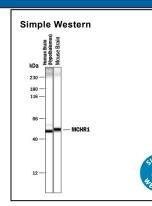
## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	50 μg/mL	See Below



Detection of Human, Mouse, and Rat MCHR1 by Western Blot. Western blot shows lysates of human brain (hypothalamus) tissue, mouse brain (thalamus/hypothalamus) tissue, and rat brain (no cortex) tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat MCHR1 Monoclonal Antibody (Catalog # MAB7938) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for MCHR1 at approximately 45-50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human and Mouse MCHR1 by Simple Western Tm. Simple Western lane view shows lysates of human brain (hypothalamus) tissue and mouse brain tissue, loaded at 0.5 mg/mL. A specific band was detected for MCHR1 at approximately 50-52 kDa (as indicated) using 50 µg/mL of Mouse Anti-Human/Mouse/Rat MCHR1 Monoclonal Antibody (Catalog # MAB7938). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

## PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

MCHR1 (melanin-concentrating hormone receptor-1), also called GPR24 (G-protein coupled receptor 24) or SLC1 (somatostatin receptor-like 1), is an approximately 44 kDa, seven-transmembrane receptor for MHC. It is most highly expressed in the brain but is also present in peripheral tissues. Engagement of MHCR1 has effects on food intake, energy homeostasis, anxiety and depression, such that rodents treated with small molecule antagonists weigh less and show reduced anxiety and depression in model systems than untreated rodents. Human MCHR1 shares 74% amino acid (aa) sequence identity with mouse MCHR1 between aa 1-113, and 82% with rat MCHR1 between aa 71-113.

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