

HCRT2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant HCRT2.****Catalog # AT2331a****Specification**

HCRT2 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O43614
Other Accession	NM_001526
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	50694

HCRT2 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 3062**Other Names**

Orexin receptor type 2, Ox-2-R, Ox2-R, Ox2R, Hypocretin receptor type 2, HCRT2

Target/Specificity

HCRT2 (NP_001517, 1 a.a. ~ 54 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

Dilution

WB~~1:500~1000

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

HCRT2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

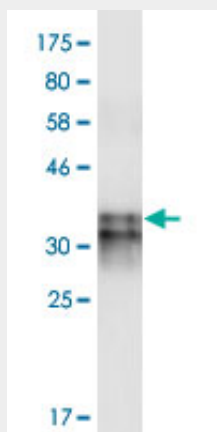
HCRT2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

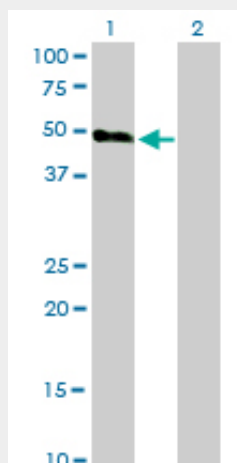
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HCRT2 Antibody (monoclonal) (M01) - Images



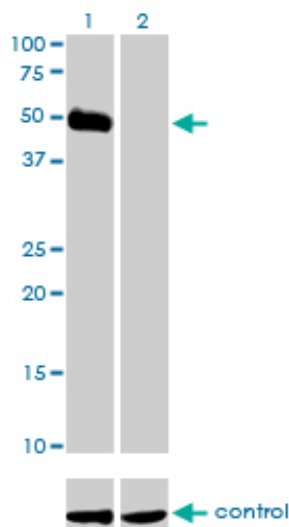
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.68 kDa) .



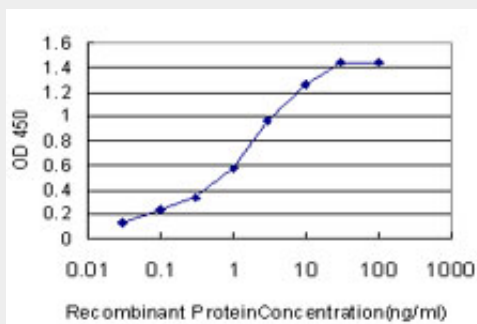
Western Blot analysis of HCRT2 expression in transfected 293T cell line by HCRT2 monoclonal antibody (M01), clone 1E3.

Lane 1: HCRT2 transfected lysate(50.7 kDa).

Lane 2: Non-transfected lysate.



Western blot analysis of HCRT2 over-expressed 293 cell line, cotransfected with HCRT2 Validated Chimera RNAi (Cat # AT2331a)



Detection limit for recombinant GST tagged HCRT2 is approximately 0.03ng/ml as a capture antibody.

HCRT2 Antibody (monoclonal) (M01) - Background

The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein binds the hypothalamic neuropeptides orexin A and orexin B. A related gene (HCRT1) encodes a G-protein coupled receptor that selectively binds orexin A.

HCRT2 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064. Genomic organization and regulation of the human orexin (hypocretin) receptor 2 gene: identification of alternative promoters. Chen J, et al. Biochem J, 2010 Apr 14. PMID 20156195. Common genetic variation and the control of HIV-1 in humans. Fellay J, et al. PLoS Genet, 2009 Dec. PMID 20041166. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.