

**Docket #:** S91-095

# Monoclonal Antibody for Hypocretin-1 (MAb 310)

Researchers in Prof. Emmanuel Mignot's laboratory developed a mouse monoclonal antibody to the N-terminal end of the hypocretin-1 protein (Hcrt-1, also known as orexin-A). Hcrt-1 is an excitatory neuropeptide hormone with established effects on wakefulness, mood and lipid metabolism. The absence of hcr1-1 can cause narcolepsy. This antibody has applications for narcolepsy diagnostics and for basic research of sleep disorders and metabolism.

## Applications

- **Diagnostic tool** to provide accurate early diagnosis for human or animal narcolepsy
- **Research tool** to study lipid metabolism and sleep disorders

## Publications

- Lin L, Faraco J, Li R, Kadotani H, Rogers W, Lin X, Qiu X, de Jong PJ, Nishino S, Mignot E. [The sleep disorder canine narcolepsy is caused by a mutation in the hypocretin \(orexin\) receptor 2 gene.](#) *Cell* 1999 98:365-376

## Patents

- Published Application: [20050048538](#)

## Innovators

- Emmanuel Mignot
- Shahrads Taheri

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