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 hcrt-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

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