

Orexin Receptor 1 polyclonal antibody

Catalog: BS67495

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Orexin Receptor 1 or Hypocretin G-protein-coupled receptor-1 (OX1R and HCRT1, respectively) is 1 of 2 orexin receptors expressed in the brain. Neurons in the hypothalamus express orexin receptors that bind to neuropeptides to modulate neuronal function. The neuropeptides that bind orexin receptors include Orexin-A (hypocretin-1) and Orexin-B (hypocretin-2). Orexin-A binds with a higher affinity to HCRT1, whereas Orexin-B binds more selectively to HCRT2. Activation of HCRT1 by its cognate neuropeptide drives downstream signaling events regulating several cellular processes, including increases in cytoplasmic Ca^{2+} levels. HCRT1 has been linked to many behavioral processes, including wakefulness as well as migraines and mood disorders. The link of the orexin system to sleep and mood disorders make it a potential therapeutic target to combat insomnia, depression, anxiety, and addiction.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 55 kDa

Swiss-Prot:

O43613

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/200)

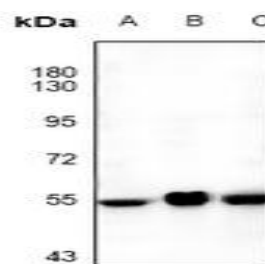
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

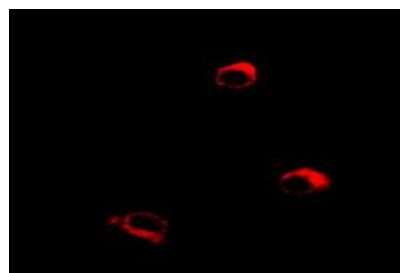
Specificity:

Recognizes endogenous levels of Orexin Receptor 1 protein.

DATA:



Western blot analysis of Orexin Receptor 1 expression in U87MG (A), rat brain (B), mouse brain (C) whole cell lysates.



Immunofluorescent analysis of Orexin Receptor 1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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