



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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Orexin Receptor-1 (N Terminal). Rabbit Antigen Immunoaffinity Purified Polyclonal

**BACKGROUND**

As first published in 1998 by Sakurai et al., the initial neuropeptides Orexin A and Orexin B were shown to be important in the regulation of appetite. Continued research now suggests that these peptides also influence a wide range of physiological and behavioral processes such as increased EEG arousal and wakefulness and locomotor activity. In addition to the orexins, two G-protein coupled receptors, designated orexin receptor-1 and orexin receptor-2, have been identified which presumably mediate the signaling events from these neuropeptides<sup>1</sup>. Recently Orexin Receptors have been found to activate extracellular signal-regulated kinases in CHO cells, namely ERK phosphorylation, through Ca<sup>2+</sup> influx<sup>2</sup>. Further studies seem to indicate a mechanism for orexin receptor mediated cell death and suggest a pathway from GPCR's to apoptosis through the MAPK pathways.<sup>3</sup>

**IMMUNOGEN**

Synthetic peptide made to the N terminal of human Orexin Receptor 1

**POSITIVE CONTROL/TISSUE EXPRESSION**

membrane

**COMMENTS**

Antibody can be used for Western blotting at Optimal concentration should be evaluated by serial dilutions.

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1845P

**SIZE**

10 Miniblots

**FORM**

Affinity Purified

**HOST/CLONE**

Rabbit

**FORMULATION**

Immunoaffinity antibody provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

ELISA

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

O43613, Human

**PURIFICATION**

Antigen Immunoaffinity Purification

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Rodger, R. J. et al, Orexins and Appetite Regularion, Neuropeptides,(2002) Vol 36, pp.303-325.
- 2.Ammoun, Sylvia et al., OX1 Orexin Receptors Activate Extracellular Signal-Regulated Kinase in Chinese Hamster Ovary Cells via Multiple Mechanisms: The Role of Ca<sup>2+</sup> Influx in OX1 Receptor Signaling. Molecular Endocrinology, 2006, Issue 20, vol 1, pp.80-99
3. Ammoun, Sylvia et al. G- protein couples OX1 Orexin/hcrtr-1 Hypocretin Receptors Induce Caspase-dependent and -independent Cell Death through p38 Mitogen-/Stress-activated Protein Kinase, J. Biol. Chem, January 13, 2006, Vol 281, Issue 2, pp834-843,