



20150116ML

# Anti-Human Orexin B (#5G21)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M596</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with extracellular domain of human recombinant protein of Orexin-B.

## Target Background

<b>Synonyms (Target):</b>	Orexin B
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Orexin B is a hypothalamic neuropeptide that regulates feeding behavior. This peptide significantly augments food intake in a dose-dependent manner when a bolus was administered intracerebroventricularly. After a 48 hour fast, hypothalamic prepro-orexin mRNA level is up-regulated 2.4. The discovery of Orexins and their receptors may provide a novel molecular basis for understanding the role of the lateral hypothalamic areas in the regulation of energy homeostasis.

## Database References Target

<b>Protein RefSeq:</b>	NP_001515.1
<b>Uniprot ID:</b>	O43612
<b>mRNA RefSeq:</b>	NM_001524.1

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#5G21)
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	human Orexin-B peptide (aa71-96, O43621)
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to specifically detect human OrexinB.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

IHC (F)

### Recommended usage:

IHC (frozen) 1:50 - 1:100

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**



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## Application/Handling

