

## DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                               |
| <b>Specificity</b>                                                                                                                                                                                      | Detects only the acylated form of human Ghrelin in direct ELISA.                    |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 891240                                   |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                          |
| <b>Immunogen</b>                                                                                                                                                                                        | Human Ghrelin acylated peptide<br>Gly24-Arg51<br>Accession # Q9UBU3                 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                        |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                     |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Mature Ghrelin peptides are the result of the cleavage of the Ghrelin/Obestatin Prepropeptide, a 117 aa precursor peptide that is processed into three chains, Ghrelin-27 (aa 24-50), Ghrelin-28 (aa24-51) and Obestatin (aa76-98). The prepropeptide is cleaved into proGhrelin, and then further processed into mature Ghrelin by prohormone convertases. Mature Ghrelin is acylated with an N-octanoyl group on serine 3 which is required for receptor binding. Ghrelin and Obestatin are predominantly synthesized in the gastric mucosa. Ghrelin plays a role in growth factor release and appetite suppression as well as many other functions in a variety of organs. Obestatin is a putative hormone that has been suggested to have opposite effects on growth factor release and appetite as Ghrelin.

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