

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse and human Ghrelin/Obestatin prepropeptide in ELISA. Detects human Ghrelin peptides (acylated and de-acylated) in ELISA.
Source	Monoclonal Rat IgG _{2A} Clone # 883622
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Obestatin/Ghrelin prepropeptide Gly24-Lys117 Accession # Q9EQX0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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

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

BACKGROUND

GHRL (Ghrelin/Obestatin Prepropeptide) is a 117 aa precursor peptide that is processed into two chains, Ghrelin (aa24-51) and Obestatin (aa76-98). The 18 kDa prepropeptide is cleaved into proGhrelin, and then further processed into mature Ghrelin by prohormone convertases. Mature Ghrelin is modified 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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