Human Obestatin Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 226710

Catalog Number: FAB81492N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ghrelin/Obestatin in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 226710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide containing human Ghrelin/Obestatin Accession # Q9UBU3
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.*

ELISA	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

Mature Ghrelin peptides are the result of the clavage 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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