

Product Specification Sheet

**Human Obestatin Antibodies**

<b>Cat # OBSN11-P</b>	Human Obestatin Control/Blocking Peptide	<b>SIZE:</b> 100 µg
<b>Cat # OBSN11-S</b>	Rabbit anti-human Obestatin antiserum	<b>SIZE:</b> 100 µl
<b>Cat # OBSN11-A</b>	Rabbit anti-human Obestatin IgG (affinity pure)	<b>SIZE:</b> 100 µg

**Control** of appetite involves a number of gastrointestinal hormones that belong to the ghrelin-motilin ligand family that either stimulate food intake and gastric emptying or inhibit these responses.

Recently, a new member of the ghrelin-motilin family was identified by using bioinformatic predictions about enzyme cleavage of the prepropeptide of ghrelin. The newly identified 23 amino acid, ghrelin-associated peptide was named obestatin (1). Although both peptides originate from the same precursor prepropeptide, they have opposing physiological roles. Obestatin exerts anorexigenic effects by decreasing food intake, gastric emptying, jejunal motility, and weight gain by binding to GPR39 orphan receptor, while ghrelin exerts opposing orexigenic effects by binding to growth hormone secretagogue receptor.

Reports that GPR39 is a cognate receptor for Obestatin were recently contradicted (3, 4) warning for more prudent approach to investigation.

**Obestatin** rat: 23aa; mouse: 23aa; human: 23aa – 2.5KDa; Chromosome: 3p26-p25. Highly expressed in stomach and found in serum as well.

**Source of Antigen, Antibodies**

<b>Antigen</b>	13 - aa peptide of Human OBSN11 (Protein accession # <b>Q9UBU3</b> ; ref. 1); designated as OBSN11-P control/blocking peptide conjugated to KLH; epitope location ~ ~N-terminus
<b>Antibody host/type</b>	Rabbit, Polyclonal IgG (Cat # OBSN11-A), purified over antigen-Agarose
<b>Secondary Ab</b>	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
<b>Negative Control Ab</b>	Non-immune rabbit IgG (Cat # 20009-1) to be used as -ve control for ELISA, WB, IHC etc.

**Form & Storage of Antibodies/Peptide Control**

**Antiserum (unpurified)**  
100ul solution lyophilized powder  
Supplied in Buffer: 0.05% azide  
**Reconstitute** powder in 100 ul PBS

**Affinity pure IgG**  
100 ug/100ul solution lyophilized powder  
Supplied in **Buffer:** PBS+0.1% BSA  
**Reconstitute** powder in PBS at 1mg/ml

Control/blocking peptide  
100 ug/100 ul solution lyophilized powder  
Supplied in Buffer: PBS pH 7.5,  
**Reconstitute powder in PBS at 1 mg/ml.**

**Storage**

**Short-term:** unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for powder

**Recommended Usage**

**Western Blotting:** 1-10 µg/ml; using affinity pure antibody (chemiluminescence technique).

**ELISA:** 1:100K; using 50-100 ng control peptide/well.

**Histochemistry & Immunofluorescence:** Not tested; we recommend the use of affinity purified antibody at 2-10 µg/ml.

**Specificity & Cross-reactivity**

Human OBSN11-P control peptide sequence is 100% conserved in mouse, rat, pig, sheep, monkey, dog and cat. Antibody cross-reactivity in various species is not known. The control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at the web site).

**General References:** 1) J.V. Zhang, et al., (2005) Science, 310, 996.; M. Kojima, et al., (1999) Nature, 402, 656.; J.V. Zhang, et al., (2007) Science, 315, 766.; N. Chartrel, et al., (2007) Science, 315, 766.

\*This product is for in vitro research use only.

**Related material available from ADI**

Antibodies to obestatin, Ghrelin, GHSR and GPR39  
Peptides and KLH/BSA conjugates to human, mouse and rat  
S3-N-Octonylated Ghrelin  
Peptides to full length and des 1-10 obestatin (h,m,r)  
OBSN11-A-P 80529A

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