

**Anti-Ghrelin (human)
Mouse monoclonal antibody**

Subclass: IgG1/I

Clone: 45

CAT. NO. **ABS 050-45**

SPECIFICITY	ABS 050-45 binds human octanoylated ghrelin and human des-acyl ghrelin.
IMMUNOGEN	Synthetic human Ser3-octanoyl ghrelin-28
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Human, rat (5%)
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPI TOPE SPECIFICITY	Not determined. Probably includes residues 11 or 12 to account for the lower cross-reactivity with rat ghrelin.

PRESENTATION

Content:	Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	ELISA: ABS 050-45 binds human ghrelin in solution. ABS 050-45 (as capture antibody) forms a pair with ABS 052-121 as biotinylated detection antibody for measuring total human ghrelin by sandwich ELISA. WB: ABS 050-45 can be used in Western blotting.
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TARGET	Ghrelin is an orexigenic (food intake stimulating) 27 or 28 amino-acid gut-brain peptide hormone produced by endocrine cells in the stomach, pancreatic islets and certain hypothalamic neurons. Two forms are produced by alternative mRNA splicing; Gln13 or 14 is missing from the second form. "Active" ghrelin is acylated (octanoylated) at Ser3; this form stimulates growth hormone secretion via GHS receptors and increases appetite. The des-acyl form does not have these effects but may have other actions. Plasma responses of total ghrelin to food may reflect those of active ghrelin.
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REFERENCES

CONDITIONS

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