ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Oxyntomodulin (OXM) Antibodies

□ Cat. # OXM11-P	Human OXM Control Peptide # 1	**SIZE**: 100 ug
□ Cat. # OXM11-AW	Rabbit Anti- Human OXM Ig G # 1 (aff pure) without BSA/Azide	**SIZE**: 100 ug

Glucagon is a member of a multigene family comprising of Secretin, Vasoactive Intestinal Peptide (VIP), Gastric Inhibitory Peptide (GIP) and others like Glicentin and Oxyntomodulin (OXM), which differs from glucagon by C-terminal octapeptide. The glucagon precursor contains at least 3 intervening sequences that divide the protein-coding portion into 4 regions corresponding to the signal peptide and part of the N-terminal peptide, the remainder of the N-terminal peptide and glucagon, glucagon-like peptide-1 (GLP1), and GLP2.

OXM, a 37 aa peptide contains the glucagon sequence extended by a C-terminal basic octapeptide, its primary structure is identical in all mammals except in pig and cattle. OXM is released from the gut during digestion, together with glicentin another octapeptide containing molecule. It is considered as a putative physiological regulator of gastric acid secretion, it inhibits histamine.

Source of Antigen and Antibodies

Antigen	9-aa peptide from **human OXM (1)**; **Designation (OXM11-P, control or blocking peptide**) conjugated to KLH; Epitope location - ~CT terminus of mature OXM
Ab Host/type	Rabbit, Polyclonal IgG, purified over antigen-agarose (Cat # **OXM11**-A) purified over antigen-Agarose
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
Negative Control Ab	Non-immune rabbit IgG (Cat # 20009-1) to be used as –ve control for ELISA, WB, IHC etc.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

□ 100 ug/100ul □ solution □ lyophilized powder

Supplied in **Buffer**: PBS

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 **-20°C** and powder at **4°C or -20°C..**

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 ug/ml for affinity pure IgG using Chemiluminescence technique.

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Histochemistry: not tested. We recommend the use of affinity purified antibody at 2-10 ug/ml.

Specificity & Cross-reactivity

The hOXM11-P control peptide shows 100% sequence homology with rat, mouse, guinea pig and 89% with bovine, pig and sheep protein sequences. Antibody cross-reactivity in various species has not been studied. 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:

Zhu L et al, (2003) JBC April issue; Dakin CL et al (2002) Journal of Physiol Endocrinol Metab, 283, E-1173-77; Dakin CL et al (2001) Endocrinology, 142(10): 4244-50; C. Carles-Bonnet et al, Peptides (1996), 17.No:3, 557-61.

*This product is for In vitro research use only.

Related material available from ADI

Antibodies for Glucagon, GLP1 &2, GIP, Secretin and GRF.

OXM11-AW 120131A

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