ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Chicken Ovalbumin Antibodies and Protein Controls

Cat # OVA13-M	Mouse Monoclonal Anti-Chicken egg ovalbumin ascites	**SIZE**: 100 ul
Cat # OVA11-C	Purified chicken egg ovalbumin protein WB +ve control	**SIZE**: 100 ul

Chicken egg albumin (Ovalbumin) is the major protein constituent of egg whites. Chicken egg albumin is a phosphorylated-glycoprotein. From the amino acid sequence, the peptide portion of the molecule consists of 385 residues and has a molecular weight of 42.7 kDa. This sequence completely agrees with the reported m-RNA (messenger RNA) sequence. The carbohydrate and phosphate portions account for an additional 1428 and 160 grams per mole respectively, giving a total molecular weight of 44.3 kDa. Differential scanning calorimetry indicates the chicken egg albumin denatures at 84 °C. Ovalbumin can be used as a carrier protein to conjugate to synthetic peptides for use as an immunogen. It has the following amino acids: 20 Lys, 10 Tyr, 6 Cys, 14 Asp, and 33 Glu which make it suitable for conjugation.

Source of Antigen and Antibodies

Ovalbumin was purified (>95%) from chicken egg white (**cat # OVA12-R**). It is supplied in PBS pH 7.4 at 10 mg/ml in either liquid (1 ml) or lyophilized powder. No preservative is added in the ovalbumin solution. The stock solution must be frozen in suitable aliquots and frozen at –20oC for storage. Suitable bacteriostatic agents (azide or merthiolate cab be added as desired. Reconstitute the powder in water at 1-10 mg/ml and store frozen at –20oC.

Extinction coefficient: $E_{1\%}$ = 6.9 to 7.6 (280 nm).

Mouse monoclonal antibodies to ovalbumin were generated in mice (Clone OVA13-M, IgG1 isotype) was expanded as ascites. Cat# OVA13-M is supplied in 0.05% azide as preservative as liquid (100 ul) or in powder. Store stock at –20oC. Powder can be reconstituted in 100 ul water.

Suggested Secondary antibodies

Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)

Western blot +ve control (**Cat # OVA11-C)** is prepared from the purified ovalbumin protein. It is provided in Laemmeli reduced SDS-PAGE sample buffer. It should be loaded on the SDS-PAGE gels at 5-10 ul/lane. It is possible to adjust the volume according the intensity of the signal. Heat once prior to loading on gels. Avoid repeated heating and freezing of samples. Store at –20oC in suitable aliquots.

Stability: 6-12 months at –20oC or below.
Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting (1:1K-5K using Chemiluminescence technique)..

ELISA (1:1K-10K; using 50-100 ng control antigen/well).

Histochemistry & Immunofluorescence: no tested.

*This product is for In vitro research use only.

Other Fusion tag antibodies available from ADI

Ovalbumin ELISA Details of the antibodies, cat#, prices are posted at the web site.

ELISA kits for the detection of antibodies to mouse ovalbumin in mice

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

OVA13-M 71218A

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