

**Cat # OVA12-R**

Chicken egg ovalbumin purified protein

**SIZE: 10 mg**

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 kept at –20oC for storage. Suitable bacteriostatic agents (azide or merthiolate) can be added as desired. Reconstitute the powder in water at 1-10 mg/ml and store frozen at –20oC.

Extinction coefficient: E<sub>1%</sub> = 6.9 to 7.6 (280 nm).

Highly purified, antigen grade ovalbumin from chicken egg white was used to obtain antibodies polyclonal antibodies in rabbits (cat # OVA11-S), mice (#OVA14-S) and rats (#OVA16-S). Antisera are supplied in 100ul solution or powder containing 0.05% azide. Store stock at –20oC. Powder can be reconstituted in 100 ul PBS or water. Store solution at -20oC or below.

Ovalbumin protein for Western blot +ve control (Cat # OVA11-C) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of OVA11-C for good visibility with antibody Cat # OVA11-S, OVA14-S or OVA16-S. Store at –20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the OVA11-C solution prior to heating and loading on

gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly.

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

**Histochemistry & Immunofluorescence:** no tested.

#### Suggested secondary antibodies

**Goat Anti-rabbit IgG-HRP** cat # 20320 (AP, biotin, FITC conjugates also available)

**Goat Anti-Mouse IgG-HRP** cat # 40320 (AP, biotin, FITC conjugates also available)

**Goat Anti-rat IgG-HRP** cat # 50320 (AP, biotin, FITC conjugates also available)

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

#### Other Fusion tag antibodies available from ADI

##### Ovalbumin ELISA kits

##### Mouse and Rat anti-ovalbumin ELISA kits

##### Mouse, rat, rabbit antibodies detection kits

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

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

OVA12-R

71218A