

Product Specification Sheet

Turkey Egg White and Yellow proteins

<input type="checkbox"/> Cat # 20212-1	Turkey (non-immune) total Egg Yellow proteins	SIZE: 50 mg
<input type="checkbox"/> Cat # 20213-1	Turkey (non-immune) total Egg White proteins	SIZE: 50 mg

Allergy to chicken egg or proteins is one of the more frequent causes of food hypersensitivity in infants and young children. Both IgG and IgA class antibodies may be detected. Ovalbumin intolerance has been implicated in a number of conditions affecting children. In particular, children with cystic fibrosis show elevated anti-ovalbumin antibodies. Ovalbumin antibodies have also been noted in some forms of kidney disease. A relationship between food allergy and infantile autism has also been observed. Children with insulin-dependent diabetes mellitus show an enhanced immune response to both β -lactoglobulin and ovalbumin, a phenomenon that may be related to the development of the disease. Conditions related to ovalbumin intolerance usually resolve once egg and egg based foods have been withdrawn from the patient's diet.

Intolerance to egg proteins could be due not only to the ovalbumin protein found in egg white but also to other major proteins present in the yolk. The major proteins of chicken eggs are: Ovalbumin (45 kda, 54%), Conalbumin (13%, 80 kda), Ovomucoid (11%, 28 kda), Lysozyme (3.5%, 14 kda), Globulins (G2, G3) (8.0%, mol wt?), Ovomucin (1.5%, mol wt?). Other protein components include, flavoprotein (0.8%), ovoglycoprotein (0.5%), ovomacroglobulin (0.5%), ovoinhibitor (0.1%) and avidin (0.05%).

Egg allergies occur in about 0.5 percent of the population and in about 5 percent of children with allergies. Because influenza and yellow fever vaccines are both made in eggs, egg proteins (primarily ovalbumin) are present in the final product. Residual quantities of egg proteins found in the influenza vaccine (i.e., about 0.02-1.0 ug per dose) are sufficient to induce severe but rarely fatal hypersensitivity reactions in children with egg allergies.

ADI has made antibodies to major chicken egg proteins to help detect these proteins using appropriate immunoassay.

Source of Antigen and Antibodies

Turkey egg white proteins (egg white) were extracted in a PBS, pH 7.5 (**Cat # 20213-1-N**). The proteins are supplied in liquid at 10 mg/ml in PBS 0.05% azide or in powder form. Reconstitute powder in PBS or other buffers. It can be used positive control for antibody # or for coating ELISA plates.

Turkey egg yellow proteins (egg yellow) were extracted in a PBS, pH 7.5 (**Cat # 20212-1**). The proteins are supplied in liquid at 10 mg/ml in PBS 0.05% azide or in powder form. Reconstitute powder in PBS or other buffers. It can be used positive control for antibody # or for coating ELISA plates.

Form & Storage of Antibodies/Peptide Control

Storage

Short-term: unopened, undiluted liquid vials at -200C 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 (1:1K-5K using Chemiluminescence technique)..

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

References: Welsh CJ (1986) Int Arch Allergy Appl Immunol 80(2):192-9; Sampson HA (1985) J. Pediat. 107, 669-675; Bock SA (1990) J. Pediat. 117, 561-567; Bleumink E (1971) Int. Arch. Allergy 40, 72-88; Atsuo U (1997) J. Allergy Clin. Immunol. 100, 171-176

*This product is for In vitro research use only.

Related items

Ovalbumin ELISA and anti-ovalbumin IgG, IgM ELISA

Mouse and Rat anti-ovalbumin ELISA kits

Catalog#	ProdDescription
20115-1	Turkey (non-immune) Serum IgG, purified
20115-5	Turkey (non-immune) Serum IgG, purified
20211-1	Turkey (non-immune) Egg Yolk IgY, purified
20211-5	Turkey (non-immune) Egg Yolk IgY, purified
20212-1	Turkey (non-immune) total Egg Yolk proteins
20213-1	Turkey (non-immune) total Egg White proteins
80187	Turkey Serum Antibody detection ELISA kit,
8020	Turkey IgG (total) ELISA Kit, 96 tests,
20212-13-1	110504A

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