

Product datasheet for **R1101F**

OVAL Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, ID, IF, IHC, IP, R

Recommended Dilution: **ELISA,
Immunocytochemistry.
Immunohistochemistry on Frozen Sections.
(Indirect Immunofluorescence.**

In immunocytochemical and immunohistochemical staining of Ovalbumin at the cellular and subcellular level of appropriately treated cell and tissue substrates. This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.

Recommended Working Dilutions: 1/20-1/80, depending on the method used.

Reactivity: Chicken

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: Highly purified egg albumin (MW 45,000) isolated from Chicken egg whites. Freund's complete adjuvant is used in the first step of the immunization procedure.

Specificity: Chicken Ovalbumin.

A single precipitin line is obtained in immunoelectrophoresis against 1% chicken egg albumin in PBS. In double radial immunodiffusion of the antiserum against twofold dilutions of 1% chicken egg albumin in PBS and in the reverse arrangement of the chicken egg albumin solution against twofold dilutions of the antiserum, a single precipitin line is obtained. The antiserum does not react with chicken serum. Cross-reactivity: Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants.

Cross-reactivity of this antiserum has not been tested in detail.



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Formulation:	PBS, pH 7.2 without preservatives Label: FITC State: Purified State: Lyophilized purified IgG Hyperimmune fraction Absorption emission: 492 nm - 515 nm Molar ratio: Fluorochrome/IgG protein molar ratio (F/P): ~1.7
Reconstitution Method:	Restore by adding 1.0 ml of sterile distilled water
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ovalbumin (SERPINB14)
Database Link:	Entrez Gene 396058 Chicken P01012
Background:	Chicken Ovalbumin is the major protein in the "white" of the egg (and a favorite antigen in immunological research). Egg white contains a variety of proteins including ovalbumin, conalbumin, ovomucoid and lysozyme. It belongs to the serpin family and the Ov serpin subfamily. Ovalbumin can cause an allergic reaction in humans. Ovalbumin has been implicated in the development of the egg shell. Immunohistochemistry revealed that ovalbumin is found only in the mammillary bodies of decalcified shell, and is not distributed throughout the shell matrix. These results indicate that ovalbumin is present during the initial phase of shell formation and becomes incorporated into the protein matrix of the mammillary bodies. However, it is not yet clear whether ovalbumin at this site plays a specific role in shell mineralisation. Anti Ovalbumin Antibody recognizes ovalbumin that is the main protein found in egg white. Ovalbumin makes up 60-65% of the total protein. Ovalbumin displays sequence and threedimensional homology to the serpin superfamily, but unlike most serpins it is not a serine protease inhibitor. The function of ovalbumin is unknown, although it is presumed to be a storage protein.
Synonyms:	SERPINB14, Egg albumin, Plakalbumin, Allergen Gal d II
Note:	<u>Conjugation Procedure:</u> A proprietary technique for the binding of FITC is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life.