

Product Information

Anti-Chicken Egg Albumin (Ovalbumin) antibody, Mouse monoclonal
clone OVA-14, purified from hybridoma cell culture

Product Number **SAB4200702**

Product Description

Anti-Chicken Egg Albumin (Ovalbumin) antibody, Mouse monoclonal, (mouse IgG1 isotype) is derived from the hybridoma OVA-14 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with purified Chicken Egg Albumin. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells.

Anti-Chicken Egg Albumin (Ovalbumin) antibody, Mouse monoclonal specifically recognizes chicken egg albumin (ovalbumin, 45 kDa) when used in ELISA, competitive ELISA, dot blot and Immunoblotting.¹⁻⁴ The product reacts with turkey egg albumin, but not with serum albumin of the following species: chicken, turkey, human, bovine, pig, donkey, goat, sheep, horse, dog, cat, guinea pig, rabbit, rat, mouse, and pigeon.

Ovalbumin (OVA), also known as Gal d 2, is a major protein of chicken egg white.¹ OVA is one of the major allergens in chicken egg white, and is often the cause of hypersensitivity reactions to food. It serves as a suitable model allergen for studying the relationship between structure and function because the amino acid sequence and post-translational modifications of the molecule are known.¹ Monoclonal antibody reacting specifically with OVA is of growing importance in standardization and characterization of allergens²⁻⁴ and serve as a tool for the detection and quantification of egg albumin in food products.⁵⁻⁶

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Indirect ELISA: a working concentration of 0.1-0.2 µg/mL is recommended using 10 µg/mL albumin from chicken egg white, Product Number A5503, for coating.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Kahlert H., et al., *Mol. Immunol.*, **29**, 1191-201 (1992).
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3. Montelius C., et al., *Br J Nutr.*, **106**, 836-44 (2011).
4. Tober R., et al., *J Virol.*, **88**, 4897–907 (2014).
5. Dhanapala P., et al., *Mol Immunol.*, **66**, 375-83 (2015).
6. Caubet JC. and Wang J., *Pediatr Clin North Am.*, **58**, 427-43 (2011).

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