

Datasheet for 200-4233-0100

Ovalbumin Antibody Fluorescein Conjugated

Overview

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| Description: | Anti-Ovalbumin (Hen Egg White) (RABBIT) Antibody Fluorescein Conjugated - 200-4233-0100 |
| Item No.: | 200-4233-0100 |
| Size: | 100 µg |
| Applications: | Dot Blot, ELISA, WB, FC, IF |
| Reactivity: | Chicken |
| Host Species: | Rabbit |

Product Details

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| Background: | Anti-Ovalbumin Antibody detects Ovalbumin. Ovalbumin is the main protein found in egg white, making up 60-65% of the total protein. It is a non-inhibitory serpin. It is the storage protein of egg white. Anti-Ovalbumin Antibody is ideal for investigators involved in Cell Signaling, Immunology and Signal Transduction research. |
| Synonyms: | rabbit anti-Ovalbumin Antibody FITC Conjugation, fluorescein conjugated rabbit anti-Ovalbumin antibody, Egg albumin antibody, Plakalbumin, Allergen Gal d II, Allergen=Gal d 2, Hen Egg White |
| Host Species: | Rabbit |
| Conjugate: | Fluorescein (FITC) |
| Clonality: | Polyclonal |
| Format: | IgG |
| F/P Ratio: | 3.57 |

Target Details

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|------------------------|---------------------------|
| Gene Name: | SERPINB14 |
| Reactivity: | Chicken |
| Immunogen Type: | Native Protein |
| Immunogen: | Ovalbumin [Hen Egg White] |

Purity/Specificity: Ovalbumin Antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-fluorescein, anti-Rabbit Serum as well as purified and partially purified Ovalbumin [Hen Egg White]. Cross reactivity against Ovalbumin from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P01012](#)
- [NCBI - P01012.2](#)
- [GeneID - 396058](#)

Application Details

Tested Applications: Dot Blot, ELISA, WB

Suggested Applications: FC, IF (Based on references)

Application Note: Anti-Ovalbumin fluorescein conjugated antibody has been tested by ELISA, dot blot, and western blot and is suitable for fluorescent western blot, immunofluorescence microscopy, and flow cytometry or FACS analysis as well as other antibody based fluorescent assays. Researchers should determine optimal titers for applications that are not stated below.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

FC: User Optimized

IF: 1:500 - 1:2,500

IP: 1:100

WB: User Optimized

Formulation

Physical State: Lyophilized

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

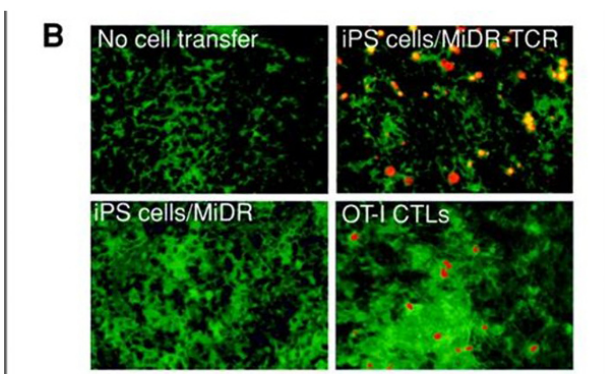
Reconstitution Volume: 100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

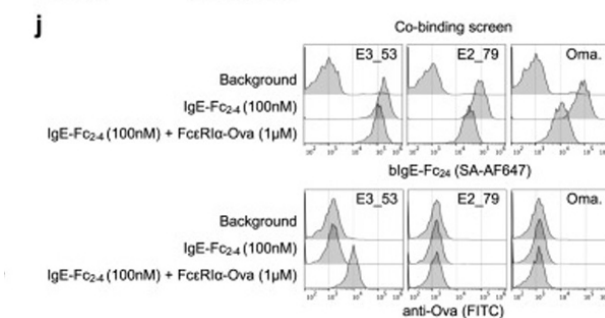
| | |
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| Shipping Condition: | Ambient |
| Storage Condition: | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Expiration: | Expiration date is one (1) year from date of receipt. |

Images



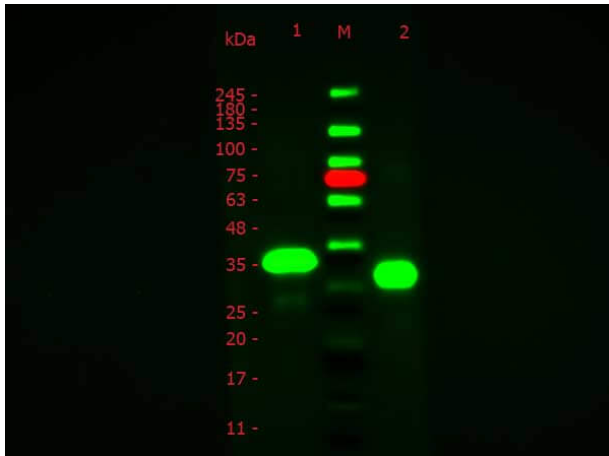
Immunofluorescence Microscopy

B, immunohistologic staining. OVA-specific Vα2+ CTLs (red) infiltrated in OVA-expressing tumor tissues (green). Fig 4. PMID: 21628492



Flow Cytometry

j Normalized histogram of singlet-cMyc+ yeast anti-IgE controls stained with secondary reagents alone to assess background signal on yeast, binding to bIgE-Fc2-4 alone (100 nM), or co-binding to bIgE-Fc2-4 (100 nM) in complex with FcεRIα-Ova (1 μM). Surface bound bIgE-Fc2-4 was detected with SA-647 (top) and surface bound FcεRIα-Ova was detected with anti-Ova FITC (bottom). Fig 2. PMID: 34862384



Western Blot

Western Blot of Fluorescein conjugated Rabbit anti-Ovalbumin (Hen Egg white) antibody. Lane 1: Non-Reduced Ovalbumin. Lane 2: Opal Pre-stained Ladder (MB-210-0500). Lane 3: Reduced Ovalbumin. Load: 0.05 μ g per lane. Primary antibody: none. Secondary antibody: Fluorescein Rabbit anti-Ovalbumin antibody at 1:1,000 for 60 min at RT. Predicted/Observed size: ~35 kDa.



Dot Blot

Dot Blot of Rabbit anti-Ovalbumin (Hen Egg White) Fluorescein Conjugated. Antigen: Ovalbumin. Load: 100 ng, 33.3 ng, 11.1 ng, 3.7 ng, 1.23 ng as indicated. Primary antibody: N/A Secondary antibody: Rabbit anti-Ovalbumin (Hen Egg White) antibody Fluorescein Conjugated 1:1,000 for 60 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (MB-070) for 1 hour at RT.

References

- Arenas-Hernandez M et al. Specific innate immune cells uptake fetal antigen and display homeostatic phenotypes in the maternal circulation. *J Leukoc Biol.* (2022)
- Pennington LF et al. Directed evolution of and structural insights into antibody-mediated disruption of a stable receptor-ligand complex. *Nat Commun.* (2021)
- Lei F et al. In vivo programming of tumor antigen-specific T lymphocytes from pluripotent stem cells to promote cancer immunosurveillance. *Cancer Res.* (2011)

Disclaimer

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