abcam

ab306591

Anti-Ovalbumin antibody [EPR27117-90]

Anti-Ovalbumin antibody [EPR27117-90] (ab306591) is a rabbit monoclonal antibody detecting Ovalbumin in **Western Blot, Flow Cytometry (Intra), ICC/IF**. Suitable for **Chicken**.

- Biophysical QC for unrivalled batch-batch consistency

Lab Essentials | Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27117-90
Purification technique	Affinity purification Protein A
Concentration	0.518 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Chicken
Dilution info	1/1000

Notes	This antibody is only recommended in chicken. It may detect 70kDa and 40-50kDa nonspecific bands in cell lines of other species in highly sensitive testing system.

ICC/IF

Tested

Species	Chicken
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Chicken
Dilution info	1/500
Notes	-

Target data

See full target information SERPINB14

Function	Non-inhibitory serpin. Storage protein of egg white.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Ovalbumin antibody [EPR27117-90] (ab306591) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunocytochemistry/immunofluorescence (ICC/IF) in Chicken samples.

Other related products
We have a range of other formats of antibody clone [EPR27117-90] also available for your convenience: ab306591, Carrier free - ab306592

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Ovalbumin also known as egg albumin is a significant protein found in egg white representing about 54% of the protein content in this part of the egg. It has a molecular weight of approximately 45 kDa. This protein is synthesized in the oviduct of birds and deposited in the egg white where it fulfills several roles. Ovalbumin is a glycoprotein meaning it has carbohydrate groups attached to the polypeptide chain. Researchers commonly use it as a model antigen in immunology studies and as a standard in protein markers because of its known properties.
Biological function summary	Ovalbumin functions as a storage protein in eggs providing essential amino acids for the developing embryo. This protein also plays a role in binding metal ions and vitamins acting as a nutrient reservoir. It is not part of a complex existing as a single polypeptide chain. Ovalbumin contributes to the regulation and transport of metabolic compounds due to its ability to bind ions. These properties make it useful in various biological studies and industrial applications.
Pathways	Four significant pathways involve the role of ovalbumin in living organisms. These include the regulation of protein adsorption and the nutrient reservoir activity

	pathway. Ovalbumin's ability to serve as a nutrient source directly relates to these pathways ensuring proper nourishment during embryo development. It operates independently of other proteins in these pathways emphasizing its role in providing and regulating nutrients without the aid of additional complexes.
Associated diseases and disorders	Ovalbumin has connections to some allergic responses particularly in individuals with egg allergies. It acts as an allergen capable of provoking immune reactions. Ovalbumin lacks a direct connection to specific diseases beyond allergies. However understanding its interaction with immune system proteins like immunoglobulin E (IgE) is important as this is the primary mediator in allergic responses. This link makes ovalbumin important for research into allergy mechanisms and the development of hypoallergenic variants.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

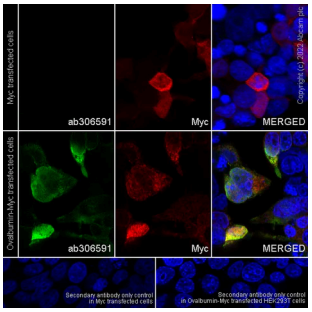
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

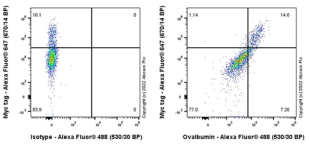
Full details and terms and conditions can be found here:
Terms & Conditions.

3 product images



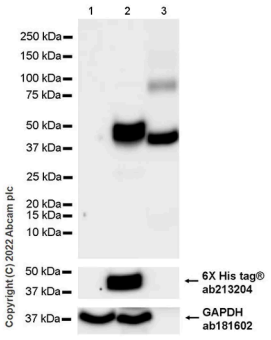
Immunocytochemistry - Anti-Ovalbumin antibody [EPR27117-90] (ab306591)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) cells labelling Ovalbumin with ab306591 at 1/1000 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing positive staining in HEK-293T cells transfected with chicken Ovalbumin vector containing a myc tag. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). Myc-Tag Mouse mAb (Alexa Fluor® 647) was used to counterstain tubulin at 1/100 dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Ovalbumin antibody [EPR27117-90] (ab306591)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HEK-293T (human embryonic kidney) cells transfected with a Ovalbumin expression vector containing a myc-his tag cells labelling Ovalbumin with ab306591 at 1/500 dilution (0.1ug)/ Right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-Ovalbumin antibody [EPR27117-90] (ab306591)

Blocking and diluting buffer and concentration: 5% NFDM/TBST The band at approximately 80 kDa is expected to be Ovalbumin dimer (PMID: 30101285). Exposure time: 15 seconds
All lanes:
Western blot - Anti-Ovalbumin antibody [EPR27117-90] (ab306591) at 1/1000 dilution

Lane 1:
293T transfected with an empty vector containing a His-tag whole cell lysate at 20 µg

Lane 2:
293T transfected with a chicken Ovalbumin vector containi a His-tag whole cell lysate at 20 µg

Lane 3:
Chicken Ovalbumin protein at 10 ng

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 45 kDa

Exposure time: 15s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.