

Product datasheet

Anti-IgG4 antibody [EP4420] ab109493

Recombinant RabMAb

[17 References](#) [4 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-IgG4 antibody [EP4420] |
| Description | Rabbit monoclonal [EP4420] to IgG4 |
| Host species | Rabbit |
| Specificity | Does not cross-react with IgG1, IgG2, or IgG3. |
| Tested applications | Suitable for: WB, IHC-P |
| Species reactivity | Reacts with: Human, Recombinant fragment |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Human IgG4 recombinant protein; Human spleen lysate, Human plasma lysate IHC-P: Human tonsil tissue. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. |
| Storage buffer | <p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p> |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EP4420 |

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab109493 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000. Predicted molecular weight: 36 kDa. For unpurified, use at 1/1000 - 1/10000. |
| IHC-P | | 1/1000 - 1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

Target

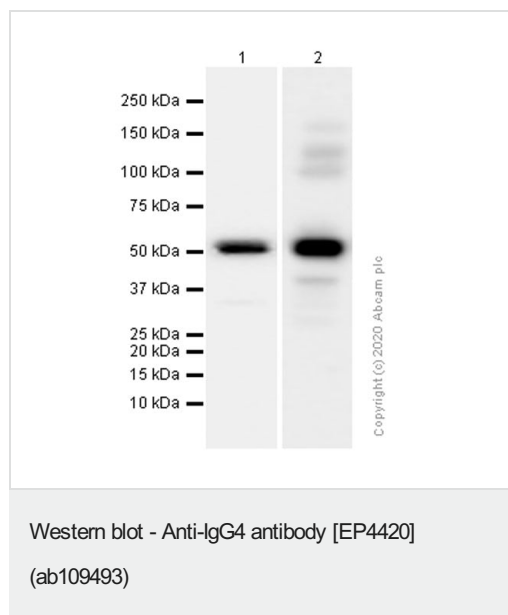
Relevance

IgG4 antibodies will dominate the IgG response in schistosomiasis, lymphatic filariasis, and in patients after allergen immunotherapy. Unlike the other IgG subclasses, IgG4 does not activate complement. A combined IgA-IgG4 deficiency has been associated with recurrent pyogenic infections.

Cellular localization

Secreted

Images



All lanes : Anti-IgG4 antibody [EP4420] (ab109493) at 1/1000 dilution (Purified)

Lane 1 : Human spleen lysate

Lane 2 : Human plasma lysate

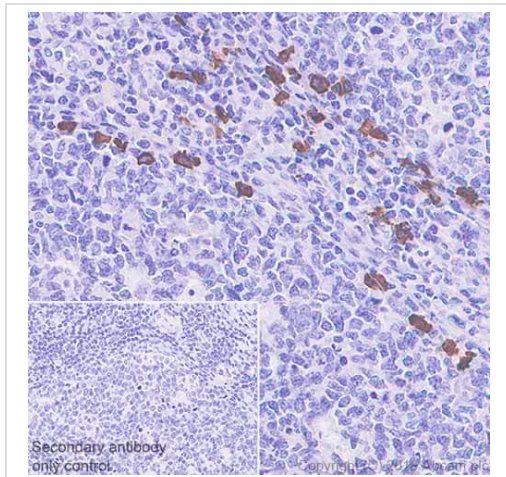
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

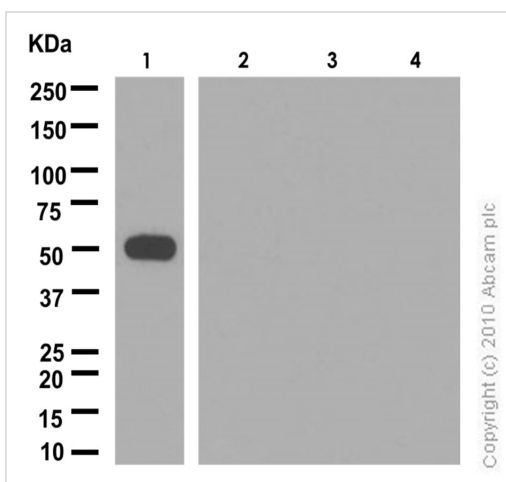
Predicted band size: 36 kDa

Observed band size: 52 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IgG4 antibody [EP4420] (ab109493)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling IgG4 with Purified ab109493 at 1:4000 dilution (0.023 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-IgG4 antibody [EP4420] (ab109493)

All lanes : Anti-IgG4 antibody [EP4420] (ab109493) at 1/1000 dilution

Lane 1 : IgG4 Recombinant protein at 0.005 µg

Lane 2 : IgG1 Recombinant protein at 0.01 µg

Lane 3 : IgG2 Recombinant protein at 0.01 µg

Lane 4 : IgG3 Recombinant protein at 0.01 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 36 kDa

Observed band size: 52 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 180 seconds.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-IgG4 antibody [EP4420] (ab109493)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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