

Anti-Human IgG antibody [EPR4421] - Low endotoxin, Azide free ab216446

 **RabMAb**

[7 References](#) [8 图像](#)

概述

产品名称	抗人IgG抗体[EPR4421] - Low endotoxin, Azide free
描述	兔单克隆抗体[EPR4421] 到人IgG - Low endotoxin, Azide free
宿主	Rabbit
特异性	This antibody recognizes all four Human IgG isotypes (IgG1, IgG2, IgG3, and IgG4).
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human IgG2, IgG1, IgG3, and IgG4 recombinant proteins, human fetal thymus, fetal tonsil and fetal spleen tissue lysates. IHC-P: Human tonsil and stomach tissues. ICC/IF: Jurkat cells.
常规说明	ab216446 is the carrier-free version of ab109489 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

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 production

For more information [see here](#).

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

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the

LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4421
同种型	IgG

应用

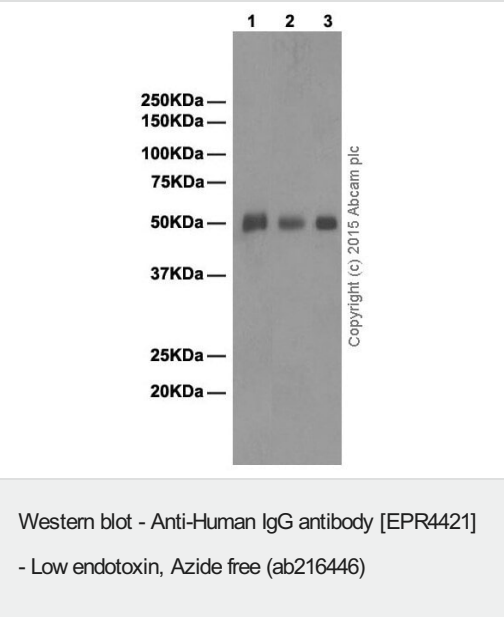
The Abpromise guarantee **Abpromise™** 承诺保证使用 ab216446 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
WB		Use at an assay dependent concentration. Detects a band of approximately 52-58 kDa.

靶标

相关性	IgG is a monomeric immunoglobulin, built of two heavy chains gamma and two light chains. Each molecule has two antigen binding sites. This is the most abundant immunoglobulin and is approximately equally distributed in blood and in tissue liquids, constituting 75% of serum immunoglobulins in humans. This is the only isotype that can pass through the human placenta, thereby providing protection to the fetus in its first weeks of life before its own immune system has developed. It can bind to many kinds of pathogens, for example viruses, bacteria, and fungi, and protects the body against them by complement activation (classic pathway), opsonization for phagocytosis and neutralisation of their toxins. There are 4 subclasses: IgG1 (66%), IgG2 (23%), IgG3 (7%) and IgG4 (4%).
细胞定位	Cell Membrane and Secreted



All lanes : Anti-Human IgG antibody [EPR4421] ([ab109489](#)) at 1/20000 dilution (purified)

Lane 1 : Human fetal thymus tissue lysate

Lane 2 : Human fetal tonsil tissue lysate

Lane 3 : Human fetal spleen tissue lysate

Lysates/proteins at 20 µg per lane.

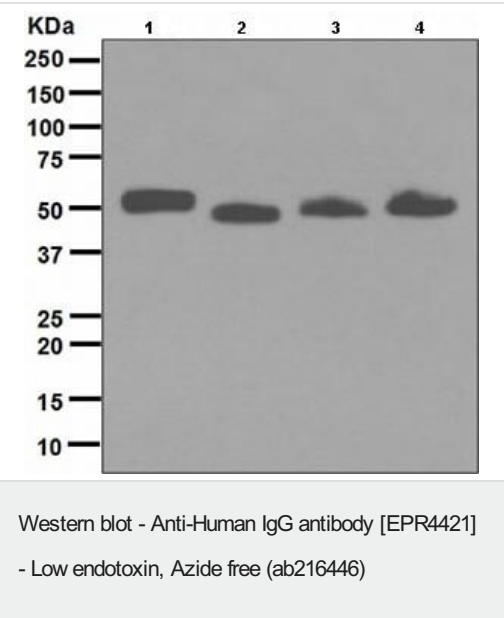
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Observed band size: 50 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109489](#)).

Blocking and dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Human IgG antibody [EPR4421] ([ab109489](#)) at 1/1000 dilution (unpurified)

Lane 1 : IgG2 recombinant protein, 10ng

Lane 2 : IgG1 recombinant protein, 10ng

Lane 3 : IgG3 recombinant protein, 10ng

Lane 4 : IgG4 recombinant protein, 10ng

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109489](#)).

250KDa—
150KDa—
100KDa—
75KDa—
50KDa—
37KDa—
25KDa—
20KDa—
15KDa—
10KDa—

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Western blot - Anti-Human IgG antibody [EPR4421]
- Low endotoxin, Azide free (ab216446)

Anti-Human IgG antibody [EPR4421] ([ab109489](#)) at 1/1000 dilution
(purified) + IgG3 recombinant protein at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Observed band size: 50 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109489](#)).

Blocking and dilution buffer: 5% NFDM/TBST.

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50KDa—
37KDa—
25KDa—
20KDa—
15KDa—
10KDa—

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Western blot - Anti-Human IgG antibody [EPR4421]
- Low endotoxin, Azide free (ab216446)

All lanes : Anti-Human IgG antibody [EPR4421] ([ab109489](#)) at 1/5000 dilution (purified)

Lane 1 : IgG1 recombinant protein

Lane 2 : IgG2 recombinant protein

Lane 3 : IgG4 recombinant protein

Lysates/proteins at 0.01 µg per lane.

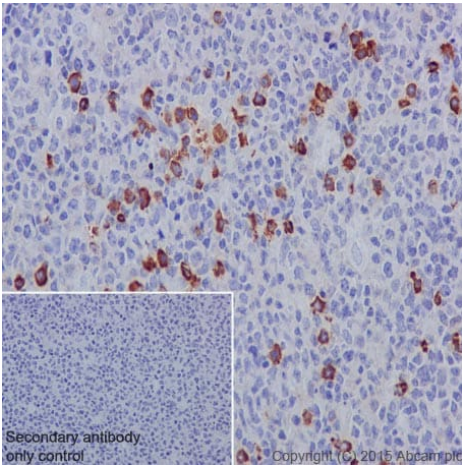
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Observed band size: 50 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109489](#)).

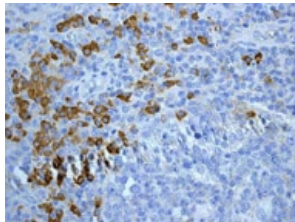
Blocking and dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human IgG antibody [EPR4421] - Low endotoxin, Azide free (ab216446)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling Human IgG with purified **ab109489** at 1/300. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109489**).

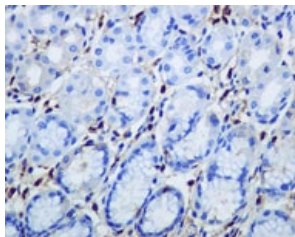


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human IgG antibody [EPR4421] - Low endotoxin, Azide free (ab216446)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling IgG with unpurified **ab109489** at a dilution of 1/500.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109489**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human IgG antibody [EPR4421] - Low endotoxin, Azide free (ab216446)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human stomach tissue labelling IgG with unpurified **ab109489** at a dilution of 1/500.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109489**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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-Human IgG antibody [EPR4421] - Low endotoxin, Azide free (ab216446)

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

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