

Product datasheet

Biotin Anti-IgA antibody [RM128] ab224184

Recombinant

[6 Images](#)

Overview

Product name	Biotin Anti-IgA antibody [RM128]
Description	Biotin Rabbit monoclonal [RM128] to IgA
Host species	Rabbit
Conjugation	Biotin
Tested applications	Suitable for: ELISA, IHC-P, Sandwich ELISA
Species reactivity	Reacts with: Human
Immunogen	Full length protein corresponding to Human IgA.

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. Store In the Dark.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS, 1% BSA
Purity	Protein A purified
Purification notes	ab224184 was purified from an animal origin-free culture supernatant.
Clonality	Monoclonal
Clone number	RM128
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab224184 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
ELISA		Use at an assay dependent concentration.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.1 - 1 µg/ml.
Sandwich ELISA		Use at an assay dependent concentration. Use: 50 ng/well - 200 ng/well (for Capture); 0.05 µg/mL - 0.2 µg/mL (for Detection).

Target

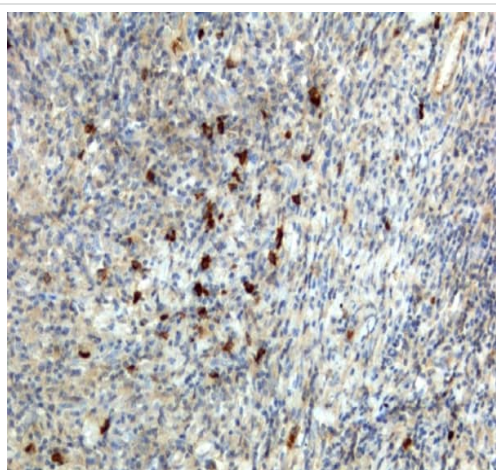
Relevance

Human IgA (immunoglobulin A) is a glycosylated protein of 160 kDa and is produced as a monomer or as a J chain linked dimer. Monomeric IgA constitutes 5-15 % of the serum immunoglobulins whereas dimeric IgA is localized to mucosa surfaces such as saliva, gastrointestinal secretion, bronchial fluids and milk. Mucosal IgA plays a major role in host defence by neutralising infectious agents at mucosal surfaces. The production is usually local and antigen specific IgA producing B cells can be found in regions under the lamina propria where they mature into dimeric IgA producing plasma cells. IgA deficiency is the most common immunodeficiency that may affect both serum and mucosal produced IgA. OR: The secretory component is a component of immunoglobulin A (IgA) which consists of a portion of the polymeric immunoglobulin receptor. Polymeric IgA binds to the polymeric immunoglobulin receptor on the basolateral surface of epithelial cells and is taken up into the cell via transcytosis. The receptor-IgA complex passes through the cellular compartments before being secreted on the luminal surface of the epithelial cells, still attached to the receptor. Proteolysis of the receptor occurs and the dimeric IgA molecule, along with the secretory component, are free to diffuse throughout the lumen.

Cellular localization

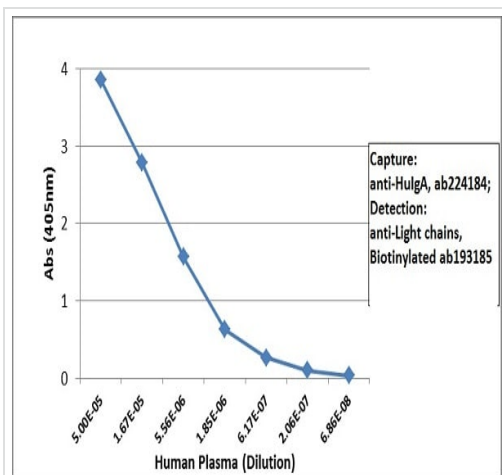
Secreted

Images



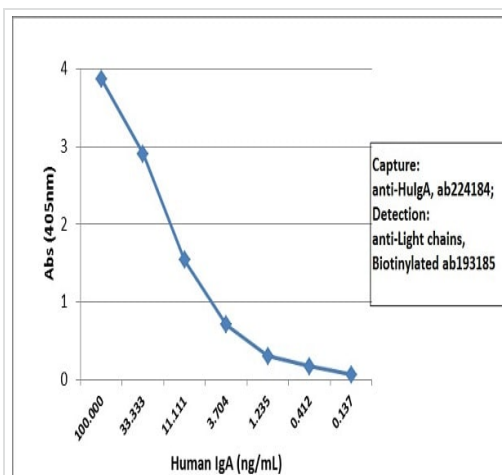
Paraffin-embedded human lymphoid tissue stained for IgA using ab224184 at 1 µg/mL in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-IgA antibody [RM128] (ab224184)



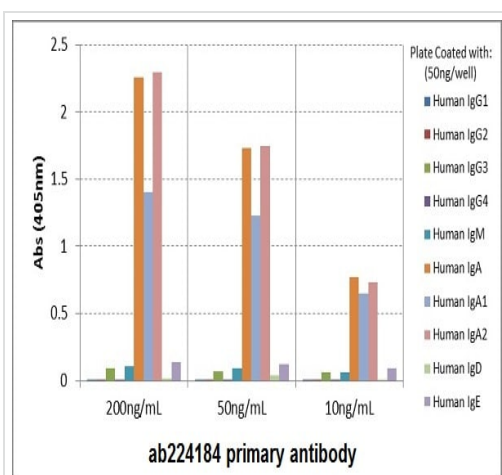
Sandwich ELISA - Biotin Anti-IgA antibody [RM128]
(ab224184)

Sandwich ELISA using ab224184 as the capture antibody (100 ng/well), and Biotinylated anti-human light chains ($\kappa + \lambda$) antibody **ab193185** as the detection antibody, followed by an alkaline phosphatase conjugated streptavidin.



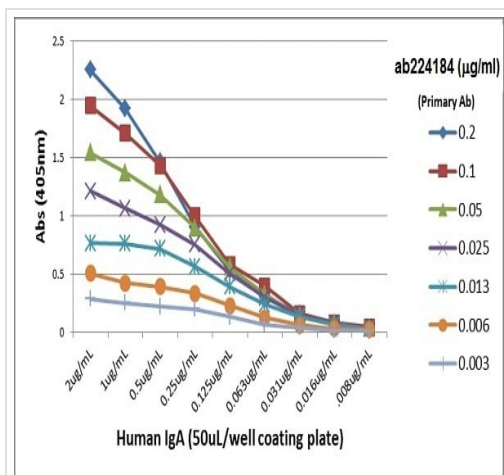
Sandwich ELISA - Biotin Anti-IgA antibody [RM128]
(ab224184)

Sandwich ELISA using ab224184 as the capture antibody (100 ng/well), and Biotinylated anti-human light chains ($\kappa + \lambda$) antibody **ab193185** as the detection antibody, followed by an alkaline phosphatase conjugated streptavidin.



ELISA - Biotin Anti-IgA antibody [RM128]
(ab224184)

ELISA of human immunoglobulins shows ab224184 reacts to both Human IgA1 & IgA2. No cross reactivity with Human IgG, IgM, IgD, or IgE. The plate was coated with 50 ng/well of different immunoglobulins. 200 ng/mL, 50 ng/mL, or 10 ng/mL of ab224184 was used as the primary antibody. An alkaline phosphatase conjugated anti-rabbit IgG as the secondary antibody.



ELISA - Biotin Anti-IgA antibody [RM128]
(ab224184)

A titer ELISA using ab224184. The plate was coated with different amounts of human IgA. A serial dilution of ab224184 was used as the primary antibody. An alkaline phosphatase conjugated anti-rabbit IgG as the secondary antibody.

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

Biotin Anti-IgA antibody [RM128] (ab224184)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors