

## Datasheet: 205008

<b>Description:</b>	GOAT ANTI HUMAN IgA:Biotin
<b>Specificity:</b>	IgA
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/2000 - 1/4000
Immunoprecipitation			▪	
Western Blotting			▪	
Immunoblotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Ig Fraction conjugated to Biotin - liquid

**Antiserum Preparation** Antisera to human IgA were raised by repeated immunisations of goats with human IgA paraproteins. The preparation was purified by affinity chromatography on pooled human IgA covalently linked to agarose.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein</b>	Ig concentration 0.5mg/ml
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## Concentrations

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**Immunogen** Human IgA.

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## External Database Links

### UniProt:

[P01876](#) [Related reagents](#)

[P01877](#) [Related reagents](#)

### Entrez Gene:

[3493](#) IGHA1 [Related reagents](#)

[3494](#) IGHA2 [Related reagents](#)

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**RRID** AB\_609671

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## Specificity

**Goat anti Human IgA antibody** recognizes the heavy chain of human IgA as demonstrated by ELISA and Flow cytometry. IgA is the major category of antibody present in mucosal secretions and acts as a first line of defense against inhaled or ingested pathogens at the mucosal interface. IgA is also present in serum where it acts to eliminate pathogens via interaction with FcαR, also known as CD89. ([Woof et al. 2004](#)). Biotinylated Goat anti Human IgA antibody (**205008**) has been cross-adsorbed against human IgD, IgG and IgM to ensure class specificity.

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## References

1. Wright, A.K. *et al.* (2012) Human Nasal Challenge with *Streptococcus pneumoniae* Is Immunising in the Absence of Carriage. [PLoS Pathog. 8: e1002622](#).
  2. Pennington, S.H. *et al.* (2016) Polysaccharide-Specific Memory B Cells Predict Protection against Experimental Human Pneumococcal Carriage. [Am J Respir Crit Care Med. 194 \(12\): 1523-31](#).
  3. Turner, P.J. *et al.* (2020) Differences in nasal immunoglobulin A responses to influenza vaccine strains after live attenuated influenza vaccine (LAIV) immunization in children. [Clin Exp Immunol. 199 \(2\): 109-118](#).
  4. Cole, M.E. *et al.* (2021) Pre-existing influenza-specific nasal IgA or nasal viral infection does not affect live attenuated influenza vaccine immunogenicity in children. [Clin Exp Immunol. 204 \(1\): 125-133](#).
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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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## Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

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## Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/205008>  
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M427931:240301'

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