

## Product datasheet

# Native Human IgA protein ab91025

[2 References](#) [1 Image](#)

### Description

<b>Product name</b>	Native Human IgA protein
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Expression system</b>	Native
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Human
<b>Predicted molecular weight</b>	160 kDa
<b>Additional sequence information</b>	Prepared from plasma.

### Specifications

Our **Abpromise guarantee** covers the use of **ab91025** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein Determination: Extinction Coefficient (E) 0.1% at 280nm, 1cm pathway = 1.32 Prepared from plasma shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

### Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 0.05% Sodium azide Constituents: 1.58% Tris HCl, 0.58% Sodium chloride
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### General Info

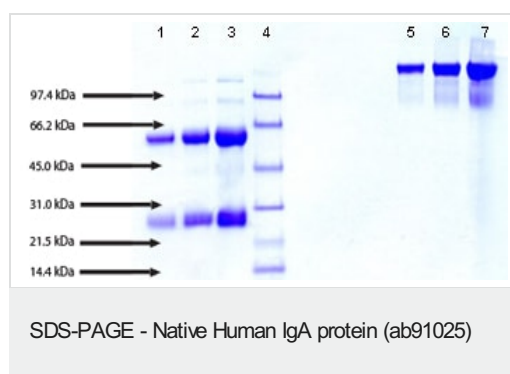
## Relevance

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



SDS-PAGE: 4-12% Bis-Tris NuPAGE gel

Lane 1: 5 µg IgA (reduced/heated)

Lane 2: 10 µg IgA (reduced/heated)

Lane 3: 20 µg IgA (reduced/heated)

Lane 4: Molecular weight markers

Lane 5: 5 µg IgA (non-reduced/no heat)

Lane 6: 10 µg IgA (non-reduced/no heat)

Lane 7: 20 µg IgA (non-reduced/no heat)

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

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