# Natural Human IgG4 protein **ab90286**

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<th>Overview</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Natural Human IgG4 protein</td>
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<tr>
<td><strong>Protein length</strong></td>
<td>Full length protein</td>
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</table>

## Nature
- Native

## Source
- Native

## Amino Acid Sequence
- Native

## Species
- Human

## Specifications

Our **Abpromise guarantee** covers the use of **ab90286** in the following tested applications.

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

### Biological activity
- Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 and 2 by FDA approved tests.

### Applications
- SDS-PAGE

### Purity
- > 95% SDS-PAGE.

### Form
- Liquid

### Additional notes
- IgG4 from human myeloma plasma. MW: 146,000.
- Protein Determination: Extinction Coefficient (E) 0.1% at 280nm =1.36.
- Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 and 2 by FDA approved tests.

## Preparation and Storage

### Stability and Storage
- Shipped on Dry Ice. Store at -20°C. Avoid freeze / thaw cycle.
- pH: 7.40
- Preservative: 0.05% Sodium azide
- Constituents: 0.0536% PBS, 0.87% Sodium chloride
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

SDS-PAGE analysis of human IgG4 full length protein (ab90286).

1. IgG4 - 5 μg (reduced / heated)
2. IgG4 - 10 μg (reduced / heated)
3. IgG4 - 20 μg (reduced / heated)
4. IgG4 - 5 μg (non-reduced / no heat)
5. IgG4 - 10 μg (non-reduced / no heat)
6. IgG4 - 20 μg (non-reduced / no heat)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"