

# PRODUCT DATASHEET



## Anti-Human IgG1 - Affinity Purified

<b>Product Codes</b>	<b>AU006</b>	
Pack Sizes	AU006 AU006.X	0.5mg Bulk
Abbreviations	N/A	
Other names	N/A	
Use	For <i>in-vitro</i> research and manufacturing uses only	
	<b>Users must validate this material for their own use and application</b>	

### Background

This product is manufactured by Binding Site in accordance with ISO13485 accredited quality systems.

Guidelines for assays used within the Binding Site are included in this datasheet. These do not confer a diagnostic use of this product.

### Product Specification

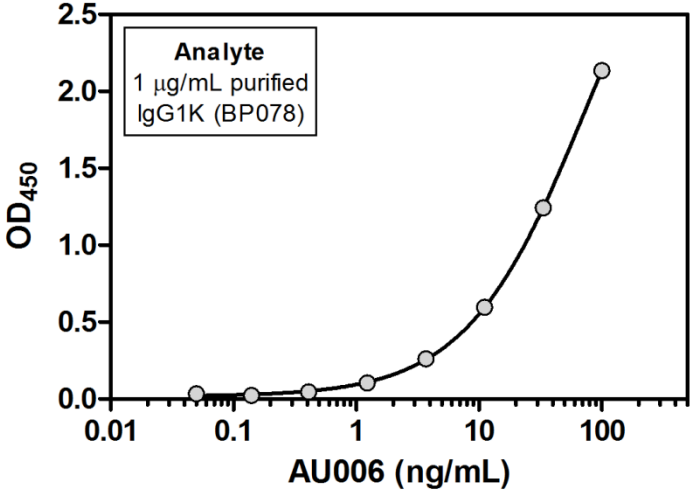
<b>Immunogen</b>	Purified human IgG1, shown pure by IEP and SDS-PAGE
<b>Host</b>	Sheep
<b>Form</b>	Affinity purified immunoglobulins
<b>Method of Production</b>	Antibodies purified by elution from specific antigens
<b>Format</b>	Liquid
<b>Filtration</b>	0.2µm
<b>Buffer</b>	Glycine buffered saline, pH7.4
<b>Preservatives</b>	0.099% Sodium Azide, 0.1% EACA, 1mM EDTA, 0.01% Benzamidine
<b>Total Protein Concentration</b>	1mg/ml as determined by measuring optical density at 280nm (extinction coefficient of a 1% solution, using a 1cm lightpath = 14.5)

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## Product Utility

<b>Shelf-life</b>	24 months at +2-8°C. Minimum shelf life 6 months.																																																																		
<b>Storage and Stability</b>	Upon receipt this product should be stored at 2-8°C where it will remain stable until the given expiry date. For longer term storage aliquot and store at -20°C.																																																																		
<p data-bbox="201 449 444 506"><b>Specificity and Purity</b> <i>Typical product data</i></p> <p data-bbox="201 604 240 632"><b>IEP</b></p> <p data-bbox="201 1150 350 1178"><b>Western Blot</b></p>	<p data-bbox="467 449 1406 541">Normal Human Serum (5 µL) and purified IgG1K protein (BP078; 5 µL) were electrophoresed on Tris-Borate agarose and incubated overnight with AU006 (100 µL). Resulting immunoprecipitation arcs were visualised by Coomassie Blue staining.</p> <div data-bbox="477 554 1308 730"> <p data-bbox="526 575 646 617">5 µL Normal Human Serum</p> <p data-bbox="477 667 646 709">5 µL Purified Human IgG1K (BP078)</p> <p data-bbox="1247 625 1308 667">100 µL AU006</p> </div> <p data-bbox="467 779 1455 905">Purified IgG proteins (0.1 µg) and IgG reference serum (0.1 µg total IgG) were separated by 4-12 % non-reducing SDS-PAGE and blotted onto PVDF membrane. Blots were probed with AU006 at 1/5000 dilution and detected with donkey anti-sheep immunoglobulin-HRP (AP360) at 1/5000 dilution using 3-Amino-9-ethylcarbazole staining.</p> <div data-bbox="477 926 1349 1682"> <table border="1"> <thead> <tr> <th></th> <th colspan="4">Purified Monoclonal Protein</th> <th>Reference IgG1 serum</th> </tr> <tr> <th></th> <th>IgG1K (BP078)</th> <th>IgG2K (BP080)</th> <th>IgG3K (BP082)</th> <th>IgG4K (BP084)</th> <th></th> </tr> </thead> <tbody> <tr> <td>225</td> <td>+</td> <td>-</td> <td>-</td> <td>-</td> <td>+</td> </tr> <tr> <td>150</td> <td>+</td> <td>-</td> <td>-</td> <td>-</td> <td>+</td> </tr> <tr> <td>102</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>76</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>52</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>38</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>31</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>24</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>17</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p data-bbox="781 1696 1092 1724">AU006 at 1/5000 Dilution</p> </div>		Purified Monoclonal Protein				Reference IgG1 serum		IgG1K (BP078)	IgG2K (BP080)	IgG3K (BP082)	IgG4K (BP084)		225	+	-	-	-	+	150	+	-	-	-	+	102	-	-	-	-	-	76	-	-	-	-	-	52	-	-	-	-	-	38	-	-	-	-	-	31	-	-	-	-	-	24	-	-	-	-	-	17	-	-	-	-	-
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<b>ELISA</b>	<p>Microplates were coated with 1 <math>\mu\text{g}/\text{mL}</math> purified IgG1K protein (BP078) and probed with 0.4 – 100 <math>\text{ng}/\text{mL}</math> of AU006 followed by anti-sheep immunoglobulin-HRP (AP360) at 1/5000 dilution. The analyte was detected by measuring OD<sub>450</sub> after incubation with Tetramethylbenzidine chromogenic substrate.</p>  <table border="1"><caption>Approximate data points from the ELISA titration curve</caption><thead><tr><th>AU006 (ng/mL)</th><th>OD<sub>450</sub></th></tr></thead><tbody><tr><td>0.05</td><td>0.05</td></tr><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.2</td><td>0.05</td></tr><tr><td>0.5</td><td>0.1</td></tr><tr><td>1</td><td>0.15</td></tr><tr><td>2</td><td>0.3</td></tr><tr><td>5</td><td>0.6</td></tr><tr><td>10</td><td>1.2</td></tr><tr><td>20</td><td>1.8</td></tr><tr><td>100</td><td>2.1</td></tr></tbody></table>	AU006 (ng/mL)	OD <sub>450</sub>	0.05	0.05	0.1	0.05	0.2	0.05	0.5	0.1	1	0.15	2	0.3	5	0.6	10	1.2	20	1.8	100	2.1
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<b>Other Applications</b>	This product has been successfully used in other applications such as double diffusion and IHC																						
<b>Species Cross-reactivity</b>	Cross reactivity with other animal sera has not been tested																						

## Cautions

This product contains sodium azide and must be handled with caution; suitable gloves and other protective clothing should be worn at all times when handling this product.

Do not ingest or allow contact with the skin (particularly broken skin or open wounds) or mucous membranes. If contact does occur wash with a large volume of water and seek urgent medical advice. Explosive metal azides may be formed on prolonged contact of sodium azide with lead and copper plumbing; on disposal of reagent, flush with a large volume of water to prevent azide build up.

Associated Documents

SDS  
Certificate of Analysis

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## Related Products

[www.immunologicals.com/products/index](http://www.immunologicals.com/products/index)

- AP360 Donkey anti-sheep/goat Immunoglobulins - HRP
- BP078 Purified human IgG1 kappa myeloma
- BP080 Purified human IgG2 kappa myeloma
- BP082 Purified human IgG3 kappa myeloma
- BP084 Purified human IgG4 kappa myeloma

## Customised Variants

This product can be customized to meet specific requirements. The options available include, but are not restricted to, parameters such as titre, resting buffer and preservations. Please enquire for further information.

## Contacts

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For further assistance or  
advice please contact us at

[www.immunologicals.com/contact](http://www.immunologicals.com/contact)

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