

## Datasheet: AHP1822

<b>Description:</b>	GOAT ANTI HUMAN CD284 (N-TERMINAL)
<b>Specificity:</b>	CD284 (N-TERMINAL)
<b>Other names:</b>	TLR4
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 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 (1)	▪			1/100 - 1/300
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500

Where this product 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 product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - liquid

**Antiserum Preparation** Antiserum to human CD284 (NT) was raised by repeated immunisation of goats with

highly purified antigen. Purified IgG was prepared by affinity chromatography.

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

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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
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<b>Immunogen</b>	Synthetic peptide LIQSFKLPEYFSNLTNLEHLDLSSNKIQSIYC corresponding to amino acids 161-192 within the N-terminal region of Human CD284.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O00206</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">7099</a> TLR4 <a href="#">Related reagents</a>
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<b>RRID</b>	AB_2256158
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<b>Specificity</b>	<p><b>Goat anti Human CD284 antibody</b> recognizes the human Toll-like receptor 4, also known as CD284, hToll or TLR4. CD284 is an 839 amino acid ~96 kDa single pass type I transmembrane glycoprotein expressed by peripheral blood leucocytes, activated T cells, monocytes, macrophages, dendritic cells, granulocytes and endothelial cells. CD284 plays a primary role in the activation of innate immunity (<a href="#">UniProt: O00206</a>).</p> <p>Goat anti Human CD284 antibody recognizes an epitope within the N-terminal (NT) region of CD284, a highly conserved member of the toll-like receptor family which acts as a receptor for bacterial lipopolysaccharides (LPS) in co-operation with CD14 and MD2 (LY96), resulting in the activation of the MyD88-dependent and MyD88-independent (TRIF-dependent) signalling pathways and the production of inflammatory cytokines. LPS-activated CD284 can also induce dendritic cell maturation via TRIF-dependent signaling.</p> <p>Goat anti Human CD284 antibody is reported to be suitable for use in immunocytochemistry on acetone fixed cells.</p>
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<b>Histology Positive Control Tissue</b>	Spleen or tonsil
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<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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