

Datasheet: AHP1822

Description:	GOAT ANTI HUMAN CD284 (N-TERMINAL)
Specificity:	CD284 (N-TERMINAL)
Other names:	TLR4
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.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.
Product Form	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.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃) 0.1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide LIQSFKLPEYFSNLTNLEHLDLSSNKIQSIYC corresponding to amino acids 161-192 within the N-terminal region of Human CD284.
External Database Links	UniProt: O00206 Related reagents Entrez Gene: 7099 TLR4 Related reagents
RRID	AB_2256158
Specificity	<p>Goat anti Human CD284 antibody 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 (UniProt: O00206).</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>
Histology Positive Control Tissue	Spleen or tonsil
References	1. ElSayed, M.H. <i>et al.</i> (2023) Betanin improves motor function and alleviates experimental Parkinsonism via downregulation of TLR4/MyD88/NF-κB pathway: Molecular docking and biological investigations. Biomed Pharmacother. 164: 114917.
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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/AHP1822 10041
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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 America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M428164:240301'

Printed on 01 Mar 2024