

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.
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	0.1% Sodium Azide (NaN ₃)
Stabilisers	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](#)

Specificity

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](#)).

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.

Goat anti Human CD284 antibody is reported to be suitable for use in immunocytochemistry on acetone fixed cells.

Histology Positive Control Tissue

Spleen or tonsil

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10304 available at:
10304: <https://www.bio-rad-antibodies.com/uploads/MSDS/10304.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

'M308412:170719'

North & South Tel: +1 800 265 7376

America 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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