

## Datasheet: AHP1181

<b>Description:</b>	RABBIT ANTI HUMAN CD281 (N-TERMINAL)
<b>Specificity:</b>	CD281 (N-TERMINAL)
<b>Other names:</b>	TLR1
<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	▪			10ug/ml
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1 - 4ug/ml

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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to CD281 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	A 16 amino acid peptide located near the amino terminus of human CD281.

**External Database  
Links**

**UniProt:**

[Q15399](#)   [Related reagents](#)

**Entrez Gene:**

[7096](#)   TLR1   [Related reagents](#)

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**Synonyms**

KIAA0012

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**Specificity**

**Rabbit anti Human CD281 antibody** detects an epitope within the N-terminal (NT) region of CD281, also known as toll like receptor 1 (TLR1). TLRs recognize pathogen associated molecular patterns (PAMPs) that are expressed on infectious agents, and serve as an important link between the innate and adaptive immune response through the production of cytokines. TLR1 is co-expressed with TLR2 on monocytes and dendritic cells where they form heterodimers that can recognize peptidoglycan and bacterial lipopeptides, and in particular triacylated lipoproteins.

TLR1 can also regulate other TLR responses; TLR1 can associate with TLR4 and inhibit its signalling in endothelial cells, and can associate with TLR2 to inhibit the TLR2/TLR6 mediated response to phenol-soluble modulin.

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**Histology Positive  
Control Tissue**

Mouse spleen.

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**Western Blotting**

Rabbit anti Human CD281 detects a band of approximately 90kDa in mouse spleen lysates.

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**Further Reading**

1. Hajjar, A.M .*et al.* (2001) Cutting edge: functional interactions between toll-like receptor (TLR) 2 and TLR1 or TLR6 in response to phenol-soluble modulin. [J Immunol. 166 \(1\): 15-9.](#)
2. Janssens, S. & Beyaert, R. (2003) Role of Toll-like receptors in pathogen recognition. [Clin Microbiol Rev. 16 \(4\): 637-46.](#)
3. Spitzer JH *et al.* (2002) Toll-like receptor 1 inhibits Toll-like receptor 4 signaling in endothelial cells. [Eur J Immunol. 32 \(4\): 1182-7.](#)

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)

Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)   [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South  
America**

Tel: +1 800 265 7376

Fax: +1 919 878 3751

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

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

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