

## Datasheet: AAM74

<b>Description:</b>	GOAT ANTI MOUSE CD289 (N-TERMINAL)
<b>Specificity:</b>	CD289 (N-TERMINAL)
<b>Other names:</b>	TLR9
<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	▪			1:125
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.

<b>Target Species</b>	Mouse
<b>Species Cross Reactivity</b>	Reacts with: Human <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to mouse CD289 (NT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Synthetic peptide LSLKYNNLTKVPRQLPPSLEY-C corresponding to amino acids 204-224 within

the N-terminal region of mouse CD289.

---

**External Database  
Links**

**UniProt:**

[Q9NR96](#)    [Related reagents](#)  
[Q9EQU3](#)    [Related reagents](#)

**Entrez Gene:**

[54106](#)    TLR9    [Related reagents](#)  
[81897](#)    Tlr9    [Related reagents](#)

---

**Specificity**

**Goat anti Mouse CD289 antibody** recognises murine Toll-like receptor 9, also known as CD289 or TLR9. CD289 is an 1032 amino acid ~120 kDa endosomal single pass type I transmembrane glycoprotein with a number of [leucine rich repeats](#) and a single [TIR](#) domain ([UniProt: Q9NR96](#)). Goat anti Mouse CD289 antibody recognizes an epitope within the N-terminal (NT) region of CD289, a member of the toll-like receptor family, which triggers MyD88 and TRAF6, resulting in NF-kappaB activation, cytokine secretion and the inflammatory response.

CD289 acts as a receptor for unmethylated cytidine-phosphate-guanosine dinucleotides in bacterial DNA (CpG-DNA), playing a primary role in pathogen recognition and activation of innate immunity and has been shown to play a role in defence against systemic mouse cytomegalovirus infection.

Goat anti Mouse CD289 antibody is reported as suitable for use in immunocytochemistry on acetone fixed cells.

---

**Histology Positive  
Control Tissue**

Spleen, thymus or tonsil

---

**References**

1. Ripoll, V.M. *et al.* (2010) Macrophages from BALB/c and CBA/Ca mice differ in their cellular responses to *Streptococcus pneumoniae*. [J Leukoc Biol. 87: 735-41.](#)

---

**Storage**

Store at -20°C only.  
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 #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.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 \(BUF025C\)](#)

**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  
Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)  
'M313740:180329'

**Europe** Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50  
Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

**Printed on 02 May 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)