

# Datasheet: MCA2484F

**BATCH NUMBER 150000**

<b>Description:</b>	MOUSE ANTI HUMAN CD282:FITC
<b>Specificity:</b>	CD282
<b>Other names:</b>	TLR2
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	11G7
<b>Isotype:</b>	IgG1
<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	▪			Neat - 1/10

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.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.1mg/ml		

## Concentrations

### External Database

#### Links

#### UniProt:

[O60603](#)

[Related reagents](#)

#### Entrez Gene:

[7097](#)

TLR2

[Related reagents](#)

#### Synonyms

TIL4

#### RRID

AB\_872045

#### Specificity

**Mouse anti Human CD282 antibody, clone 11G7** recognizes the human Toll-like receptor 2 (TLR2), a ~90 kDa type 1 transmembrane protein that is primarily expressed by peripheral blood monocytes. TLR2, also known as CD282, is reported to respond to a diverse range of bacterial cell wall components, mediating the innate immune response in co-operation with MD-2.

Mouse anti Human CD282 antibody, clone 11G7 has been reported to block IL-6 cytokine production in response to ara-lipoarabinomannan (araLAM) and tripalmitoyl cysteinyl lipopeptide (Pam3CSK4) ([Sandor \*et al.\* 2003](#)). Clone 11G7 does not inhibit the production of cytokines induced by zymosan stimulation.

#### Flow Cytometry

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

#### References

1. Sandor, F. *et al.* (2003) Importance of extra- and intracellular domains of TLR1 and TLR2 in NFkappa B signaling. [J Cell Biol. 162 \(6\): 1099-110.](#)
2. Zhou, S. *et al.* (2010) Discovery of a novel TLR2 signaling inhibitor with anti-viral activity. [Antiviral Res. 87 \(3\): 295-306.](#)
3. Royer, P.J. *et al.* (2010) The mannose receptor mediates the uptake of diverse native allergens by dendritic cells and determines allergen-induced T cell polarization through modulation of IDO activity. [J Immunol. 185 \(3\): 1522-31.](#)
4. Chen, E.S. *et al.* (2010) Serum amyloid A regulates granulomatous inflammation in sarcoidosis through Toll-like receptor-2. [Am J Respir Crit Care Med. 181 \(4\): 360-73.](#)
5. Nguyen, D.N. *et al.* (2016) Oral antibiotics increase blood neutrophil maturation and reduce bacteremia and necrotizing enterocolitis in the immediate postnatal period of preterm pigs. [Innate Immun. 22 \(1\): 51-62.](#)
6. Royer, P.J. *et al.* (2010) The mannose receptor mediates the uptake of diverse native allergens by dendritic cells and determines allergen-induced T cell polarization through modulation of IDO activity. [J Immunol. 185 \(3\): 1522-31.](#)

#### 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.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2484F10041">https://www.bio-rad-antibodies.com/SDS/MCA2484F10041</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)  
'M367035:200529'

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