

Datasheet: MCA2484F

Description:	MOUSE ANTI HUMAN CD282:FITC
Specificity:	CD282
Other names:	TLR2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	11G7
Isotype:	IgG1
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	▪			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 ₃) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		

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 1×10^6 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. 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.](#)
3. 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.](#)
4. 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.](#)
5. Zhou, S. *et al.* (2010) Discovery of a novel TLR2 signaling inhibitor with anti-viral activity. [Antiviral Res. 87 \(3\): 295-306.](#)
6. 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.](#)

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

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2484F>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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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://www.bio-rad-antibodies.com/datasheets)

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