

## Datasheet: MCA2484A488

|                      |   |
|----------------------|---|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD282:Alexa Fluor® 488 |
| <b>Specificity:</b>  | CD282                                   |
| <b>Other names:</b>  | TLR2                                    |
| <b>Format:</b>       | ALEXA FLUOR® 488                        |
| <b>Product Type:</b> | Monoclonal Antibody                     |
| <b>Clone:</b>        | 11G7                                    |
| <b>Isotype:</b>      | IgG1                                    |
| <b>Quantity:</b>     | 100 TESTS/1ml                           |

### 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.

|                                       |   |                            |                          |
|---------------------------------------|---|----------------------------|--------------------------|
| <b>Target Species</b>                 | Human   |                            |                          |
| <b>Product Form</b>                   | Purified IgG conjugated to Alexa Fluor®488 - liquid   |                            |                          |
| <b>Max Ex/Em</b>                      | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | Alexa Fluor®488   | 495                        | 519                      |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |                            |                          |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin                             |                            |                          |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.05mg/ml   |                            |                          |

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**External Database****Links****UniProt:**[O60603](#)[Related reagents](#)**Entrez Gene:**[7097](#)

TLR2

[Related reagents](#)

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**Synonyms**

TIL4

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**RRID**

AB\_872043

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**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.

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**Flow Cytometry**

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

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**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.](#)

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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. This product is photosensitive and should be protected from light.

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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**Guarantee**

12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

### Recommended Useful Reagents

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

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

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