

**Monoclonal Anti-*Mycobacterium tuberculosis* GlnA (Gene Rv2220), Clone B (9D9-G12)  
(produced *in vitro*)****Catalog No. NR-50108**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

Antibody Class: IgG<sub>3λ</sub>

Monoclonal antibody to *Mycobacterium tuberculosis*, strain H37Rv glutamine synthetase (GlnA; Rv2220), clone B (9D9-G12) was produced in cell culture using a B cell hybridoma generated by the fusion of myeloma cells with immunized mouse splenocytes.

**Lot: 70006606****Manufacturing Date: 30JAN2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.anti-GlnA.B.1.8.45.mm is attached.

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

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You are authorized to use this product for research use only. It is not intended for human use.





**QC Western blot:**

Date performed: 01/09/18

1:500

~45  
kDa →



- |    |                                  |
|----|----------------------------------|
| L. | Ladder                           |
| 1. | 1µg Ovalbumin conjugated-peptide |
| 2. | 1µg Recombinant GlnA             |
| 3. | 5µg Whole Cell Lysate            |

**Western blot against subcellular fractions:**

Tested Against: 1µg ovalbumin conjugated-peptide, 1µg recombinant GlnA (17.rEC.02.07.17.RGlnA), 5µg CFP (11.Rv.2.2.21.5.CFP, NR-14825), 5µg Whole Cell Lysate (15.Rv.9.17.15.WCL, NR-14822), 5µg Cytosol (08.Rv.2.5.21.7.CYT), 5µg Membrane (08.Rv.2.5.21.7.MEM), 5µg Cell Wall (14.Rv.2.12.9.CW, NR-14828)

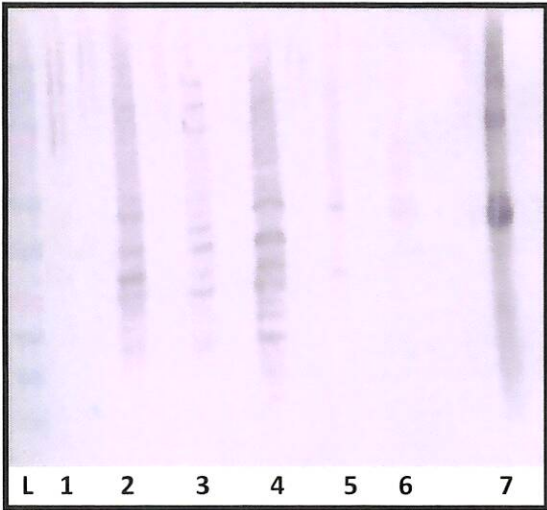
Notebook/pp: Monoclonal Antibodies #4 BEI, pgs. 59, 63

Date performed: 01/25/19

Notes: A titer of 1:50 was used to compare all of the subcellular fractions.

1:50

~45  
kDa →



- |   |                                  |
|---|----------------------------------|
| L | Ladder                           |
| 1 | 5µg CFP                          |
| 2 | 5µg Whole Cell Lysate            |
| 3 | 5µg Cytosol                      |
| 4 | 5µg Membrane                     |
| 5 | 5µg Cell Wall                    |
| 6 | 1µg recombinant GlnA             |
| 7 | 1µg ovalbumin conjugated-peptide |

Aliquot Information: 40 vials x 0.5mL (BEI), 36 vials x 0.5mL (In-house)

*Kala Gouby*  
(Research Associate) 1/30/19  
(date)

*C. Mahaffy*  
(Laboratory Supervisor) 1/30/19  
(date)

## References:

1. Hnasko, R., Lin, A., McGarvey, J.A., & Stanker, L.H. (2011). A rapid method to improve protein detection by indirect ELISA. *Biochemical and Biophysical Research Communications*, 410, Issue 4, 726-731.