

# *M. tuberculosis* Antibodies and Antigens

Tuberculosis (TB) is the leading infectious killer, with an estimated one-quarter of the world's population testing positive for *M. tuberculosis*. Early and accurate detection is essential to effectively manage and control the spread of this highly contagious disease. Creative Diagnostics offers a selection of top-quality *M. tuberculosis* antibodies and antigens. Developed using advanced biotechnology platforms, our products exhibit excellent sensitivity and specificity in the detection of *M. tuberculosis*. We rigorously test and validate our products to ensure they meet the highest standards of efficacy and reproducibility. In addition, our dedicated team of experts provides unparalleled technical support and guidance throughout the process.

## *M. tuberculosis* Antibodies

Creative Diagnostics provides highly sensitive antibodies against different specific antigens of *M. tuberculosis*. These antibodies are suitable for common immunoassays such as direct and indirect ELISA, sandwich immunoassays and Western Blot. These immunoassays play a crucial role in the research, diagnosis, and monitoring of TB infection and can provide valuable information regarding the immune response to *M. tuberculosis*.

### Western blot analysis of *M. tuberculosis* antibodies

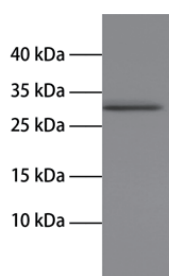


Fig. 1 Anti-*M. tuberculosis*  
Rv0815c Pab (#CABT-CS685)

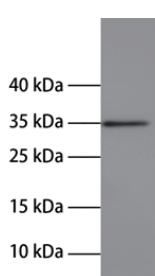


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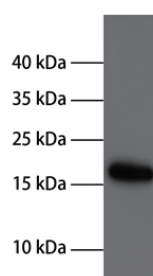


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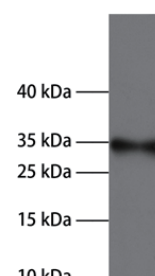


Fig. 1 Anti-*M. tuberculosis*  
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# M. tuberculosis Antibodies and Antigens

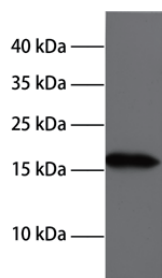


Fig. 5 Anti-M. tuberculosis Mpt70 (RV2875) Pab (#CABT-CS691)

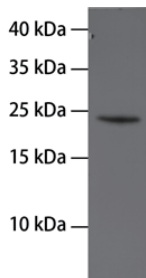


Fig. 6 Anti-M. tuberculosis Rv3676 Pab (#CABT-CS692)

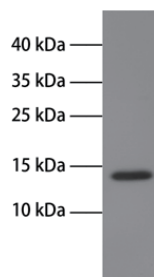


Fig. 7 Anti-M. tuberculosis Rv3849 Pab (#CABT-CS693)

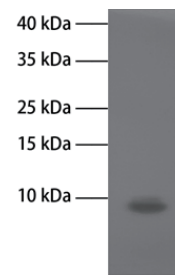


Fig. 8 Anti-M. tuberculosis PE35 (Rv3872) Pab (#CABT-CS694)

Recommended Western Blot Antibody Dilutions: 1:600- 1:1,000

## Product List

| Cat. No       | Product Name                                         | Host   | Applications      |
|---------------|------------------------------------------------------|--------|-------------------|
| DCABY-4659    | Anti-M. tuberculosis CFP-10 Mab, clone N29723UC2     | Mouse  | ELISA (Capture)   |
| DCABY-4660    | Anti-M. tuberculosis CFP-10 Mab, clone N29723UC3     | Mouse  | ELISA (Detection) |
| DMAB3943      | Anti-M. tuberculosis CFP-10 Mab, Clone C392M         | Mouse  | ELISA             |
| DMAB3941      | Anti-M. tuberculosis CFP-10 Mab, Clone C387M         | Mouse  | ELISA             |
| CABT-CS695    | Anti-M. tuberculosis CFP-10 (Rv3874) Pab             | Mouse  | ELISA, WB         |
| DMABT-51441MM | Anti-M. tuberculosis 16kDa Mab, Clone 6286           | Mouse  | ELISA, WB         |
| DMAB3963      | Anti-M. tuberculosis 16kDa Mab, Clone CDI558         | Mouse  | ELISA, WB         |
| DMAB3964      | Anti-M. tuberculosis 16kDa Mab, Clone CDI568         | Mouse  | ELISA, WB         |
| DMAB3970      | Anti-M. tuberculosis 38kDa (Rv0934) Mab, Clone ITM83 | Mouse  | ELISA, WB         |
| CABT-CS686    | Anti-M. tuberculosis 38kDa (Rv0934) Pab              | Mouse  | ELISA, WB         |
| DMABH-006     | Anti-M. tuberculosis Rv3134 Mab, clone E6            | Mouse  | ELISA, WB         |
| DMAB3971      | Anti-M. tuberculosis HSP65 Mab, Clone CDI578         | Mouse  | ELISA, WB         |
| DMAB3972      | Anti-M. tuberculosis HSP65 Mab, Clone CDI579         | Mouse  | ELISA, WB         |
| DPATB-H83149  | Anti-M. tuberculosis Pab                             | Rabbit | IHC-P, IHC-Fr     |
| DPATB-H82502  | Anti-M. tuberculosis Ag85B Pab                       | Rabbit | ELISA, WB         |
| CABT-CS047    | Anti-M. tuberculosis ESAT-6 Pab                      | Rabbit | IHC-P, IF         |
| CPBT-B1491    | Anti-M. tuberculosis Mpt64 Pab                       | Rabbit | ELISA, WB         |
| CABT-CS685    | Anti-M. tuberculosis Rv0815c Pab                     | Mouse  | ELISA, WB         |

# M. tuberculosis Antibodies and Antigens

| Cat. No    | Product Name                             | Host  | Applications |
|------------|------------------------------------------|-------|--------------|
| CABT-CS687 | Anti-M. tuberculosis Rv1804c Pab         | Mouse | ELISA, WB    |
| CABT-CS688 | Anti-M. tuberculosis CFP21 (Rv1984c) Pab | Mouse | ELISA, WB    |
| CABT-CS689 | Anti-M. tuberculosis Rv2078 Pab          | Mouse | ELISA, WB    |
| CABT-CS690 | Anti-M. tuberculosis Rv2837 Pab          | Mouse | ELISA, WB    |
| CABT-CS691 | Anti-M. tuberculosis Mpt70 (Rv2875) Pab  | Mouse | ELISA, WB    |
| CABT-CS692 | Anti-M. tuberculosis Rv3676 Pab          | Mouse | ELISA, WB    |
| CABT-CS693 | Anti-M. tuberculosis Rv3849 Pab          | Mouse | ELISA, WB    |
| CABT-CS694 | Anti-M. tuberculosis PE35 (Rv3872) Pab   | Mouse | ELISA, WB    |

## M. tuberculosis Antigens

*M. tuberculosis* antigens are used in various applications, primarily in the diagnosis, detection, and research of tuberculosis infection. Some of the applications of *M. tuberculosis* antigens include:

**Diagnostic tests:** Can be used in diagnostic tests such as interferon-gamma release assays (IGRAs)

**Vaccine development:** Understanding the role of specific antigens in the immune response can help design vaccines

**Immunoassays:** Can be used as target molecules to detect the presence of antibodies against *M. tuberculosis* in blood samples

**Immunological research:** To understand host-pathogen interactions and the immune response to TB infection

### Our advantages

- High purity >95%
- Low exogenous factors
- Low endotoxin <0.1EU/μg
- Excellent lot-to-lot consistency

### SDS-PAGE analysis of *M. tuberculosis* antigens

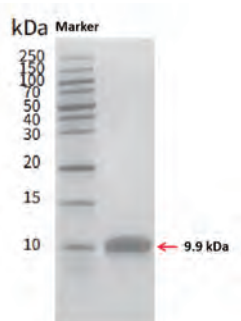


Fig. 9 Recombinant *M. tb* ESAT-6 protein (#DAGH171)

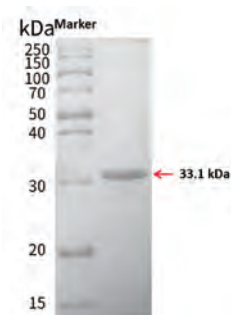


Fig. 10 Recombinant *M. tb* Ag85A protein (#DAGA-181)

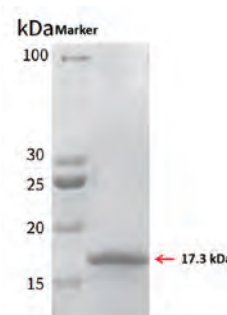


Fig. 11 Recombinant *M. tb* 16kDa (HspX) protein (#DAG-T2449)

# M. tuberculosis Antibodies and Antigens

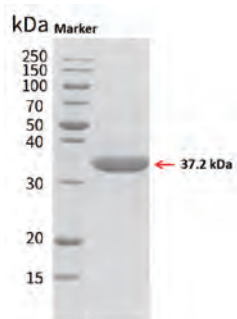


Fig. 12 Recombinant M. tb 38kDa (PstS1) protein (#DAGA-196)

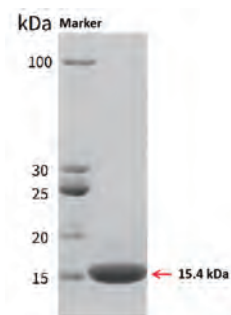


Fig. 13 Recombinant M. tb TB15.3 protein (#DAG-WT724)

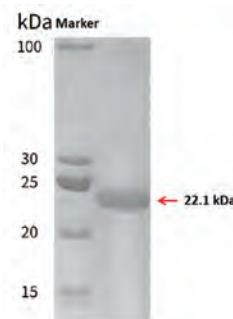


Fig. 14 Recombinant M. tb CFP10-ESAT6 Protein (#DAGA-193)

## Product List

| Cat. No   | Product Name                                         | Expression System | Applications  |
|-----------|------------------------------------------------------|-------------------|---------------|
| DAGH171   | Recombinant M. tuberculosis ESAT-6 antigen           | Escherichia coli  | ELISA, LF, WB |
| DAGA-188  | Recombinant M. tuberculosis CFP-10 antigen           | Escherichia coli  | ELISA, LF, WB |
| DAGA-193  | Recombinant M. tuberculosis CFP10-ESAT6 antigen      | Escherichia coli  | ELISA, LF, WB |
| DAG-T2449 | Recombinant M. tuberculosis HSP16.3 (HspX) antigen   | Escherichia coli  | ELISA, LF, WB |
| DAG559    | Recombinant M. tuberculosis HSP65 (groEL2) antigen   | Escherichia coli  | ELISA, LF, WB |
| DAG560    | Recombinant M. tuberculosis HSP70 (DnaK) antigen     | Escherichia coli  | ELISA, LF, WB |
| DAGA-196  | Recombinant M. tuberculosis 38kDa (PstS1) antigen    | Escherichia coli  | ELISA, LF, WB |
| DAGA-180  | Recombinant M. tuberculosis Mpt63 antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-184  | Recombinant M. tuberculosis Mpt64 antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-182  | Recombinant M. tuberculosis Mpt70 antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-183  | Recombinant M. tuberculosis Mpt83 antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-209  | Recombinant M. tuberculosis Mtb81 (GlcB) antigen     | Escherichia coli  | ELISA, LF, WB |
| DAGA-199  | Recombinant M. tuberculosis 19kDa Lipoprotein (LpqH) | Escherichia coli  | ELISA, LF, WB |
| DAGA-181  | Recombinant M. tuberculosis Ag85A antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-185  | Recombinant M. tuberculosis Ag85B antigen            | Escherichia coli  | ELISA, LF, WB |
| DAGA-175  | Recombinant M. tuberculosis Ag85C antigen            | Escherichia coli  | ELISA, LF, WB |
| DAG-WT724 | Recombinant M. tuberculosis TB15.3 antigen           | Escherichia coli  | ELISA, LF, WB |
| DAG-WT725 | Recombinant M. tuberculosis Rv0140 antigen           | Escherichia coli  | ELISA, LF, WB |

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| Cat. No    | Product Name                                  | Expression System | Applications    |
|------------|-----------------------------------------------|-------------------|-----------------|
| DAG-WT726  | Recombinant M. tuberculosis Mce1B antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT727  | Recombinant M. tuberculosis EsxG antigen      | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT728  | Recombinant M. tuberculosis EsxL antigen      | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT729  | Recombinant M. tuberculosis Rv1887 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT730  | Recombinant M. tuberculosis PE_PGRS35 antigen | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT731  | Recombinant M. tuberculosis PPE57 antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT732  | Recombinant M. tuberculosis Rv3491 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT733  | Recombinant M. tuberculosis Rv3671c antigen   | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT734  | Recombinant M. tuberculosis PE35 antigen      | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT735  | Recombinant M. tuberculosis PPE68 antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT736  | Recombinant M. tuberculosis TB16.3 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT737  | Recombinant M. tuberculosis Rv0133 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT738  | Recombinant M. tuberculosis Rv1804c antigen   | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT739  | Recombinant M. tuberculosis Mce3A antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT740  | Recombinant M. tuberculosis CFP21 antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT741  | Recombinant M. tuberculosis Rv1987 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT742  | Recombinant M. tuberculosis EsxW antigen      | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT743  | Recombinant M. tuberculosis EsxV antigen      | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT744  | Recombinant M. tuberculosis MTB32A antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT745  | Recombinant M. tuberculosis MTB39A antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT748  | Recombinant M. tuberculosis Rv2078 antigen    | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT749  | Recombinant M. tuberculosis GroES antigen     | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT750  | Recombinant M. tuberculosis Rv1087A antigen   | Escherichia coli  | ELISA, LF, WB   |
| DAG-WT1187 | Recombinant M. tuberculosis Ag85B             | Pichia pastoris   | ELISA, LF, WB   |
| DAG-WT1188 | Recombinant M. tuberculosis 38kD              | Pichia pastoris   | ELISA, LF, WB   |
| DAG-WT1189 | Recombinant M. tuberculosis Mpt64             | Pichia pastoris   | ELISA, LF, WB   |
| DAGA-168   | Native M. tuberculosis LAM                    | M. tuberculosis   | ELISA, LF, CLIA |
| DAG2684    | M. tuberculosis Tuberculin PPD                | M. tuberculosis   | -               |

# CREATIVE DIAGNOSTICS

## *M. tuberculosis* Antibodies and Antigens



### **Contact Us:**

Tel: 1-631-624-4882 (USA) / 44-161-818-6441 (Europe)

Fax: 1-631-938-8221

Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)

[www.creative-diagnostics.com](http://www.creative-diagnostics.com)

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