

**Monoclonal Anti-*Mycobacterium tuberculosis* GroES (Gene Rv3418c), Clone IT-3 (SA-12)  
(produced *in vitro*)**

**Catalog No. NR-49223**

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

**Product Description:**

Antibody Class: IgG2ak

Antibody Designation (Original Designation): IT-3 (SA-12)

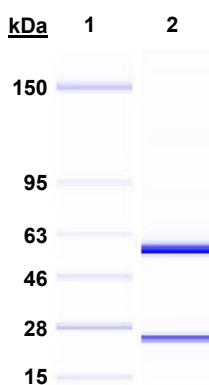
Monoclonal antibody to *Mycobacterium tuberculosis*, strain H37Rv chaperonin protein (GroES) was produced in cell culture using a B cell hybridoma generated by the fusion of myeloma cells with immunized mouse splenocytes. Mouse monoclonal antibody was purified using protein G affinity chromatography from supernatants obtained from mouse hybridoma clone IT-3 (SA-12) adapted to serum-free media.

**Lot: 70027641**

**Manufacturing Date: 23AUG2019**

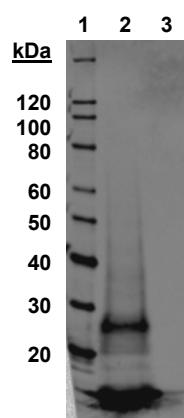
TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2ak
Agilent® Protein 230 Analysis	Correct molecular weight for heavy and light chains	Correct molecular weight for heavy and light chains (Figure 1)
Average Purity	Report results	99.7% pure
Concentration by Spectrophotometer at OD <sub>280</sub>	≥ 1.0 mg per mL	1.07 mg per mL
Functional Activity by Western Blot		
GroES (Gene Rv3418c) (BEI Resources NR-14861)	Report results	Reactive (Figure 2)
Culture filtrate protein fraction (BEI Resources NR-14826)	Report results	Non-reactive (Figure 2)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

**Figure 1: Agilent® Protein 230 Analysis**



Lane 1: Protein 230 Ladder  
Lane 2: NR-49223

**Figure 2: Functional Activity by Western Blot**



Lane 1: MagicMark™ XP Protein Standard  
Lane 2: GroES (Gene Rv3418c; BEI Resources NR-14861)  
Lane 3: Culture filtrate protein fraction (BEI Resources NR-14826)

/Heather Couch/

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01 JUN 2020

Program Manager or designee, ATCC Federal Solutions

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