

# Mycobacterium tuberculosis TB43 (1C3): sc-80487

## BACKGROUND

*Mycobacterium tuberculosis* is the most common cause of tuberculosis and is one of the world's most harmful human pathogens. Existing as a Gram-positive, obligate anaerobe that divides slowly (every 16 to 20 hours), *Mycobacterium tuberculosis* is only able to grow within a host organism and is able to persist within humans for long periods in a dormant state without causing any overt disease symptoms. Active *Mycobacterium tuberculosis* infection is characterized by a chronic, blood-tinged cough, night sweats, fever, appetite loss, chest pain and a tendency to fatigue very easily. The *Mycobacterium tuberculosis* bacterium contains a variety of auxiliary proteins that contribute to overall bacterial function and virulence. One of these such proteins is *Mycobacterium tuberculosis* TB43, which exists as a cell-associated pyridine nucleotide transhydrogenase that is involved in the regeneration of NADPH for amino acid synthesis.

## REFERENCES

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## SOURCE

Mycobacterium tuberculosis TB43 (1C3) is a mouse monoclonal antibody raised against TB43 of *Mycobacterium tuberculosis* origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Mycobacterium tuberculosis TB43 (1C3) is recommended for detection of TB43 of *Mycobacterium tuberculosis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Molecular Weight of Mycobacterium tuberculosis TB43: 43 kDa.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.