



Meridian

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CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: A01372B **Lot #:** 21K32315

Description: Mitochondrial Antigen
Mitochondrial Antigen M2

Mitochondrial antigen M2 is a cluster of four major mitochondrial innermembrane proteins of approximately 74, 52, 45 and 39 kDa. Contains the E2 subunit of branched chain 2-oxo acid dehydrogenase, the E2 subunit of the 2-oxo dehydrogenase complex, protein X and the E1a and E1b subunits of the pyruvate dehydrogenase complex. Other antigens (Sm, RNP, SSA, Jo-1 and SSB) are not detected with ELISA assays.

Source: Mixed Bovine Spleen and Thymus

Format: Affinity Purified, Liquid

Purification: Purified using immobilized human anti-Mitochondrial antibodies.

Concentration: 0.707 Units/mL
One unit of activity is the amount of antigen that will generate an absorbance of 1.2 when assayed using a standard procedure for enzyme immunoassay. Activity will vary with assay conditions.

Buffer: 0.01 M Tris containing 0.53 M Sodium Chloride.

Preservative: 0.02% Sodium Azide

Applications: Suitable for use in ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Store at $-70^{\circ}\text{C} \pm 10^{\circ}\text{C}$. Aliquot to avoid multiple freeze/thaw cycles.

Inactivation: Not Applicable

Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

References: The references listed below are for research purposes only:
1. Baum, H., et al., (1985), Mol. Aspects Med., **8**:201-234.
2. "Molecular basis of mitochondrial autoreactivity in primary biliary cirrhosis", Immunology Today, Vol. 10 (1989).
American College of Rheumatology, 55th Annual Scientific Meeting, Boston MA, Poster Presentation (1991).

Signature

06 May 2016

Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY