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ATP5F1B Antibody Blocking Peptide

Catalog Number: bs-8600P

Activity: Not tested

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Mitochondrial ATP synthase is composed of two multi-subunit complexes that utilize an

inner membrane electrochemical gradient to catalyze the synthesis of ATP during oxidative phosphorylation. The two multi-subunit complexes are designated F1 and F0, the former of which comprises the soluble catalytic core and the latter of which comprises the membrane-spanning proton channel of ATP synthase. F1 consists of five distinct subunits, designated ATP5A, ATP5B, ATP5C1, ATP5D and ATP5E, while F0 consists of ten subunits,

designated ATP5H, ATP5G1, ATP5G1, ATP5G2, ATP5J2, ATP5J3, ATP5G3, ATP5F1 and

ATP5L. ATP5B, also designated ATPMB, ATPSB or mitochondrial ATP synthetase, beta subunit, is a 529 amino acid protein that localizes to the mitochondrial membrane and exists as a subunit of the F0 complex. ATP5B is encoded by a nuclear gene and assembled with the other subunits encoded by both mitochondrial and nuclear genes. The ATP5B gene is activated by members of the Ets family of transcription factors, suggesting that Ets transcription factors are involved in the enhanced expression of the ATP5B gene in highly proliferating cells and in the coordinate transcription of nuclear genes for mitochondrial proteins. ATP5B mRNA levels vary among species through transcriptional control with high

expression levels in heart, lower levels in skeletal muscle and the lowest levels in liver and

kidney.