IREB1 Rabbit Polyclonal Antibody





Product Information

Product SKU: CAB6008 **Gene ID**: 48 **Size**: 20uL, 100uL

Clone No: - Host Species: Rabbit Reactivity: Mouse, Rat

Additional Information

Observed MW: 100kDa Conjugate: Unconjugated

Calculated MW: 98kDa Isotype: IgG

Immunogen Information

Background: The protein encoded by this gene is a bifunctional, cytosolic protein that functions as an essential

enzyme in the TCA cycle and interacts with mRNA to control the levels of iron inside cells. When cellular iron levels are high, this protein binds to a 4Fe-4S cluster and functions as an aconitase. Aconitases are iron-sulfur proteins that function to catalyze the conversion of citrate to isocitrate. When cellular iron levels are low, the protein binds to iron-responsive elements (IREs), which are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. When the protein binds to IRE, it results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degraded transferrin receptor mRNA. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alternative

splicing results in multiple transcript variants

Recommended Dilution: WB,1:500 - 1:1000

Synonyms: IRP1; ACONS; HEL60; IREB1; IREBP1; Aconitase 1 (ACO1)

Purifcation Method: Affinity purification

Immunogen: A synthetic peptide corresponding to a sequence within amino acids 100-200 of human Aconitase 1

(ACO1) (P21399).

Storage: Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.