

Anti-ATPIF1/ATP5IF1 Antibody

Catalog Number: A06408-1

About ATP5IF1

The H(+)-ATP synthase is a reversible engine of mitochondria that synthesizes or hydrolyzes ATP upon changes in cell physiology. ATP synthase dysfunction is involved in the onset and progression of diverse human pathologies. ATPIF1 gene encodes mitochondrial ATPase Inhibitory Factor 1 (IF1), also named ATPI, ATPIP or IP. Endogenous IF1 limits ATP depletion when the mitochondrial membrane potential falls below a threshold and the ATP synthase starts hydrolyzing ATP to pump protons out of the mitochondrial matrix. Mitochondrial content of IF1 controls the activity of oxidative phosphorylation mediating the shift of cancer cells to an enhanced aerobic glycolysis, thus supporting an oncogenic role of IF1 in cancer.

Overview

Product Name	Anti-ATPIF1/ATP5IF1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-ATPIF1/ATP5IF1 Antibody catalog # A06408-1. Tested in WB, IHC, ICC, IF, IP, ELISA applications. This antibody reacts with Human.
Application	ELISA, IP, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9UII2

Technical Details

Immunogen	E.coli-derived human ATPIF1/ATP5IF1 recombinant protein (Position: V3-H104).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 Immunocytochemistry/Immunofluorescence, 1:50-400

ImmunoPrecipitation, 1:250-300
ELISA, 1:100-1000

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