Bis(5'-adenosyl)-triphosphatase Polyclonal Antibody

Catalog No: #42542

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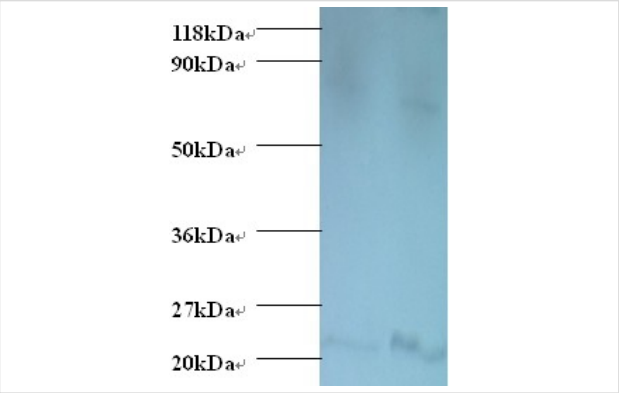
Description

Product Name	Bis(5'-adenosyl)-triphosphatase Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Bis(5'-adenosyl)-triphosphatase polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Bis(5'-adenosyl)-triphosphatase
Target Name	Bis(5'-adenosyl)-triphosphatase
Other Names	AP3A hydrolase, AP3Aase, Diadenosine 5', 5'''-P1, P3-triphosphate hydrolase, Dinucleosidetriphosphatase, Fragile histidine triad protein
Accession No.	Swiss-Prot#: P49789
Uniprot	P49789
GeneID	2272;
Calculated MW	16kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: 1:500 - 1:1000

Images



All lanes : Bis(5'-adenosyl)-triphosphatase antibody at 2ug/ml
Lane 1 : EC109 whole cell lysate
Lane 2 : 293T whole cell lysat
SecondaryGoat polyclonal to Rabbit IgG at 1/15000 dilution
Predicted band size : 16 kDa
Observed band size: 22 kDa
Additional bands at : 75 kDa.We are unsure as to the identity of this extra band.

Background

Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. Can also hydrolyze P(1)-P(4)-bis(5'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity with ATP. Modulates transcriptional activation by CTNNB1 and thereby contributes to regulate the expression of genes

essential for cell proliferation and survival, such as CCND1 and BIRC5. Plays a role in the induction of apoptosis via SRC and AKT1 signaling pathways. Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis. Induction of apoptosis depends on the ability of FHIT to bind P(1)-P(3)-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity, it may in part come from the mitochondrial form, which sensitizes the low-affinity Ca2+ transporters, enhancing mitochondrial calcium uptake. Functions as tumor suppressor.

References

[1] "The FHIT gene, spanning the chromosome 3p14.2 fragile site and renal carcinoma-associated t(3;8) breakpoint, is abnormal in digestive tract cancers."Ohta M., Inoue H., Cotticelli M.G., Kastury K., Baffa R., Palazzo J., Siprashvili Z., Mori M., McCue

Note: This product is for in vitro research use only