Recombinant Mus musculus Bis(5'-adenosyl)-triphosphatase

Catalog No: #AP73030

Package Size: #AP73030-1 20ug #AP73030-2 100ug #AP73030-3 1mg

Orders: order@signalwayantibody.com
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Description

Product Name	Recombinant Mus musculus Bis(5'-adenosyl)-triphosphatase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-150aaSequence Info:Full Length
Other Names	AP3A hydrolase ;AP3AaseDiadenosine 5',5'''-P1,P3-triphosphate hydrolaseDinucleosidetriphosphataseFragile histidine triad protein
Accession No.	O89106
Uniprot	O89106
GeneID	14198;
Calculated MW	19.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	SFRFGQHLIKPSVVFLKTELSFALVNRKPVVPGHVLVCPLRPVERFRDLHPDEVADLFQVTQRVGTVVEKHFQGTSITFSMQDGPEAGQTVKHVHVHVLPRKAGDFPRNDNIYDELQKHDREEEDSPAFWRSEKEMAAEAEALRVYFQA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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 extrely 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 . Functions as tumor suppressor.

References

Nitrilase and Fhit homologs are encoded as fusion proteins in Drosophila melanogaster and Caenorhabditis elegans.Pekarsky Y., Campiglio M., Siprashvili Z., Druck T., Sedkov Y., Tillib S., Draganescu A., Wermuth P., Rothman J.H., Huebner K., Buchberg A.M., Mazo A., Brenner C., Croce C.M.Proc. Natl. Acad. Sci. U.S.A. 95:8744-8749(1998)Research Topic:Others

Note: This product is for in vitro research use only