

TAF9 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10686

Product Information

Application	WB, IHC, CHIP
Primary Accession	Q9Y3D8
Other Accession	NM_001015891 , NP_001015891
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20061

Additional Information

Gene ID	102157402
Alias Symbol	AK6, CIP, CINAP, TAF2G, AD-004, hCINAP, CGI-137, TAFII31, TAFII32, MGC:1603, MGC:3647, MGC:5067, TAFIID32
Other Names	Adenylate kinase isoenzyme 6 {ECO:0000255 HAMAP-Rule:MF_03173}, AK6 {ECO:0000255 HAMAP-Rule:MF_03173}, 2.7.4.3 {ECO:0000255 HAMAP-Rule:MF_03173}, Adrenal gland protein AD-004, Coilin-interacting nuclear ATPase protein {ECO:0000255 HAMAP-Rule:MF_03173}, hCINAP, Dual activity adenylate kinase/ATPase {ECO:0000255 HAMAP-Rule:MF_03173}, AK/ATPase {ECO:0000255 HAMAP-Rule:MF_03173}, AK6 {ECO:0000255 HAMAP-Rule:MF_03173}
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-TAF9 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	TAF9 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AK6 {ECO:0000255 HAMAP-Rule:MF_03173}
Function	Broad-specificity nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. Also has ATPase activity (PubMed: 15630091). Involved in the late cytoplasmic maturation steps of the 40S ribosomal particles, specifically 18S rRNA maturation

(PubMed:[27477389](#)). While NMP activity is not required for ribosome maturation, ATPase activity is. Associates transiently with small ribosomal subunit protein uS11. ATP hydrolysis breaks the interaction with uS11. May temporarily remove uS11 from the ribosome to enable a conformational change of the ribosomal RNA that is needed for the final maturation step of the small ribosomal subunit (By similarity). Its NMP activity may have a role in nuclear energy homeostasis. AMP and dAMP are the preferred substrates, but CMP and dCMP are also good substrates. IMP is phosphorylated to a much lesser extent. All nucleoside triphosphates ATP, GTP, UTP, CTP, dATP, dCTP, dGTP, and TTP are accepted as phosphate donors. CTP is the best phosphate donor, followed by UTP, ATP, GTP and dCTP. May be involved in regulation of Cajal body (CB) formation (PubMed:[15630091](#)).

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03173}. Nucleus, nucleoplasm {ECO:0000255|HAMAP-Rule:MF_03173}. Nucleus, Cajal body {ECO:0000255|HAMAP-Rule:MF_03173}. Note=Displays widespread diffuse nucleoplasmic distribution but not detected in nucleoli Detected in Cajal bodies but not in all cells. {ECO:0000255|HAMAP- Rule:MF_03173}

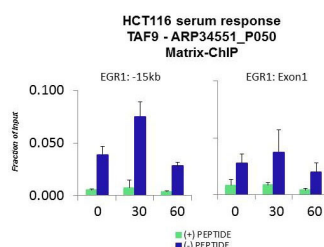
Tissue Location

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, chorionic villi and the central nervous system.

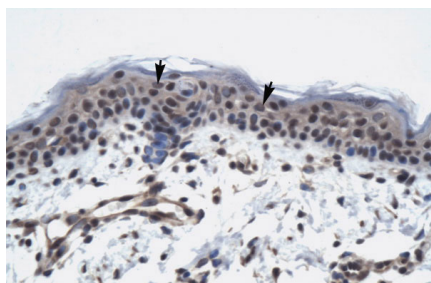
References

Evans,S.C., et al., (1999) 57 (1), 182-183Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



Quiescent human colon carcinoma HCT116 cultures were treated with 10% FBS for three time points (0, 15, 30min) or (0, 30, 60min) were used in Matrix-ChIP and real-time PCR assays at EGR1 gene (Exon1) and 15kb upstream site.



Human Skin



WB Suggested Anti-TAF9 Antibody Titration: 0.125µg/ml
ELISA Titer: 1:312500
Positive Control: Human Small Intestine

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.