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MAT1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50692

Product Information

Application	WB
Primary Accession	P51948
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	35823

Additional Information

Gene ID	4331
Other Names	CDK-activating kinase assembly factor MAT1, CDK7/cyclin-H assembly factor, Cyclin-G1-interacting protein, Menage a trois, RING finger protein 66, RING finger protein MAT1, p35, p36, MNAT1, CAP35, MAT1, RNF66
Dilution	WB~~1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	MNAT1
Synonyms	CAP35, MAT1, RNF66
Function	Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminal domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II.
Cellular Location	Nucleus.
Tissue Location	Highest levels in colon and testis. Moderate levels are present thymus, prostate, ovary, and small intestine. The lowest levels are found in spleen and leukocytes

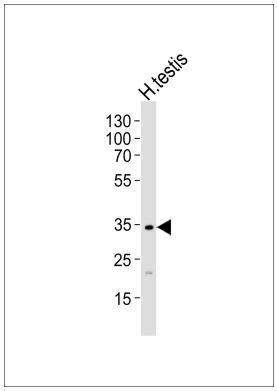
Background

Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II.

References

Tassan J.-P.,et al.EMBO J. 14:5608-5617(1995).
Yee A.,et al.Cancer Res. 55:6058-6062(1995).
Xu F.,et al.Submitted (JUN-1996) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Heilig R.,et al.Nature 421:601-607(2003).

Images



Western blot analysis of lysate from human testis tissue lysate,using MAT1 Antibody(AP50692). AP50692 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.