

Summary

Production Name	Mat1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MNAT1 MNAT1; CAP35; MAT1; RNF66; CDK-activating kinase assembly factor MAT1;
Alternative Names	CDK7/cyclin-H assembly factor; Cyclin-G1-interacting protein; Menage a trois; RING finger protein 66; RING finger protein MAT1; p35; p36
Gene ID	4331.0
SwissProt ID	P51948.The antiserum was produced against synthesized peptide derived from human MAT1. AA range:91-140

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000..
Molecular Weight	36kD

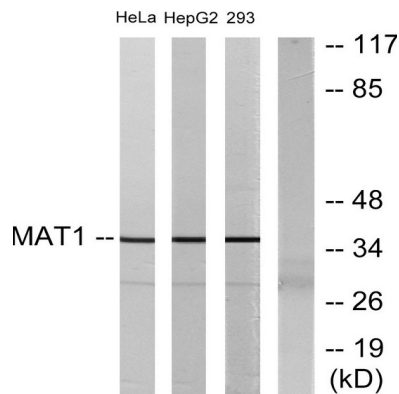
Background

The protein encoded by this gene, along with cyclin H and CDK7, forms the CDK-activating kinase (CAK) enzymatic complex. This complex activates several cyclin-associated kinases and can also associate with TFIIH to activate transcription by RNA polymerase II. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011],function:Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/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.,similarity:Contains 1 RING-type zinc finger.,similarity:Contains 1 UIM (ubiquitin-interacting motif) repeat.,subunit:Associates primarily with CDK7 and cyclin H to form the CAK complex. CAK can further associate with the core-TFIIH to form the TFIIH basal transcription factor.,tissue specificity: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.,

Research Area

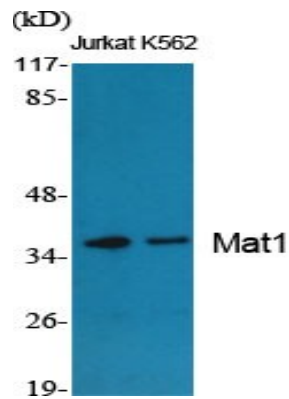
Nucleotide excision repair;

Image Data

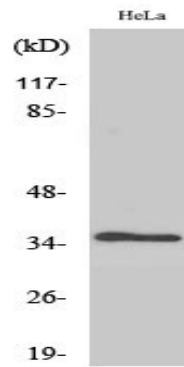


Western blot analysis of lysates from HeLa, HepG2, and 293 cells, using MAT1 Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: Mat1 Rabbit Polyclonal Antibody
Catalog #: APRab13665



Western Blot analysis of various cells using Mat1 Polyclonal Antibody



Western Blot analysis of 293 cells using Mat1 Polyclonal Antibody

Note

For research use only.