

## Rabbit MNAT1 Polyclonal Antibody | anti-MNAT1 antibody

MNAT1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326454 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

MNAT1; Polyclonal Antibody; MNAT1 Antibody; MNAT 1; CAP35; CDK activating kinase assembly factor MAT1; CDK-activating kinase assembly factor MAT1; CDK7/cyclin H assembly factor; CDK7/cyclin-H assembly factor; Cyclin G1 interacting protein; Cyclin-G1-interacting protein; MAT1; MAT1\_HUMAN; Menage a trois 1 (CAK assembly factor); Menage a trois; Menage a trois homolog 1; cyclin H assembly factor (Xenopus laevis); MNAT CDK activating kinase assembly factor 1; Mnat1; p35; p36; RING finger protein 66; RING finger protein MAT1; RNF66; TFB3; anti-MNAT1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                              |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                   |
| Clonality                                       | Polyclonal                                                                                                                                                          |
| Isotype                                         | IgG                                                                                                                                                                 |
| Specificity                                     | MNAT1 antibody detects endogenous levels of total MNAT1                                                                                                             |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                       |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                       |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                              |
| Sequence Length                                 | 267                                                                                                                                                                 |
| Applicable Applications for anti-MNAT1 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                            |
| Immunogen                                       | A synthesized peptide derived from human MNAT1                                                                                                                      |
| Subcellular Location                            | Nucleus.                                                                                                                                                            |
| 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. |
| Predicted Cross Reactivity                      | <b>Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                                                               |
| Similarity                                      | Zebrafish (88%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (88%), Xenopus (88%)                                                 |
| Conjugation                                     | Unconjugated                                                                                                                                                        |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                   |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326454 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of HeLa whole cell lysates, using MNAT1 Antibody. The lane on the left is treated with the antigen-specific peptide.



**IF (Immunofluorescence)**  
AAA326454 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-MNAT1 antibody</b> | <p>Description: 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]</p> <p>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.</p> <p>Subunit Structure: 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                      |
|----------------------------------|------------------------------------------------------|
| NCBI GI #                        | 295789085                                            |
| NCBI GeneID                      | 4331                                                 |
| NCBI Accession #                 | NP_001171434.1                                       |
| NCBI GenBank Nucleotide #        | NM_001177963.1                                       |
| UniProt Accession #              | P51948; Q15817; Q6ICQ7; G3V1U8                       |
| Molecular Weight                 | Observed: 36 kDa<br>Predicted: 36 kDa                |
| NCBI Official Full Name          | CDK-activating kinase assembly factor MAT1 isoform 2 |
| NCBI Official Synonym Full Names | MNAT1, CDK activating kinase assembly factor         |
| NCBI Official Symbol             | MNAT1                                                |
| NCBI Official Synonym Symbols    | MAT1; TFB3; CAP35; RNF66                             |
| NCBI Protein Information         | CDK-activating kinase assembly factor MAT1           |
| UniProt Protein Name             | CDK-activating kinase assembly factor MAT1           |

|                            |                    |
|----------------------------|--------------------|
| UniProt Gene Name          | MNAT1              |
| UniProt Synonym Gene Names | CAP35; MAT1; RNF66 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mnat1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326454>