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Anti-MNAT1 Picoband Antibody
Catalog # ABO12300

Specification

Anti-MNAT1 Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P51948
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for CDK-activating kinase assembly factor MAT1(MNAT1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MNAT1 Picoband Antibody - 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

Calculated MW
35823 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
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.

Protein Name
CDK-activating kinase assembly factor MAT1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human MNAT1 recombinant protein (Position: L92-A278). Human MNAT1 shares 93%

amino acid (aa) sequence identity with mouse MNAT1.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Contains 1 RING-type zinc finger.

Anti-MNAT1 Picoband Antibody - 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

Anti-MNAT1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MNAT1 Picoband Antibody - Images

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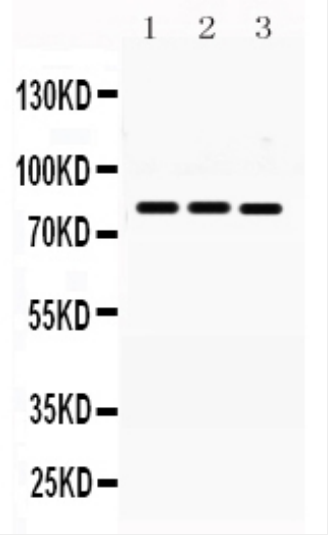
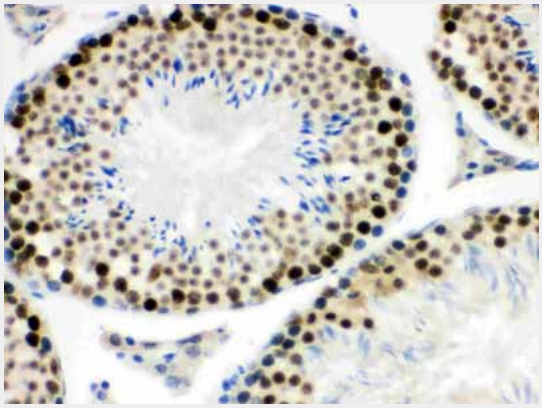
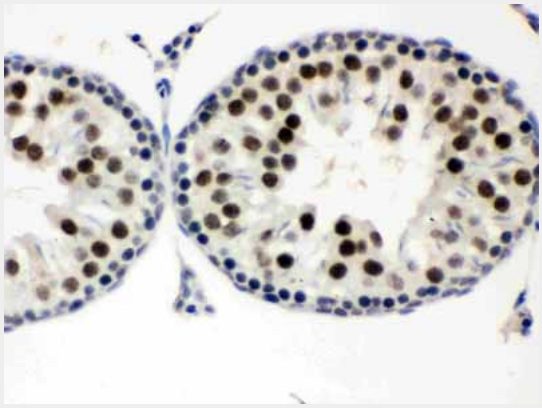


Anti- MNAT1 Picoband antibody, ABO12300, Western blottingAll lanes: Anti MNAT1 (ABO12300) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Liver Tissue Lysate at 50ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 81KDObserved bind size: 81KD



Anti- MNAT1 Picoband antibody, ABO12300, IHC(P)IHC(P): Mouse Testis Tissue



Anti- MNAT1 Picoband antibody, ABO12300, IHC(P)IHC(P): Rat Testis Tissue

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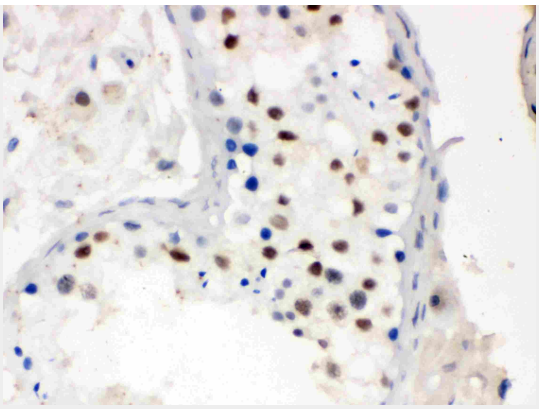

Anti- MNAT1 Picoband antibody, ABO12300, IHC(P)IHC(P): Human Testis Tissue

Anti-MNAT1 Picoband Antibody - Background

CDK-activating kinase assembly factor MAT1 is an enzyme that in humans is encoded by the MNAT1 gene. 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.