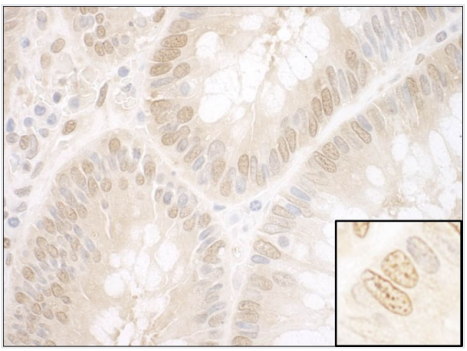
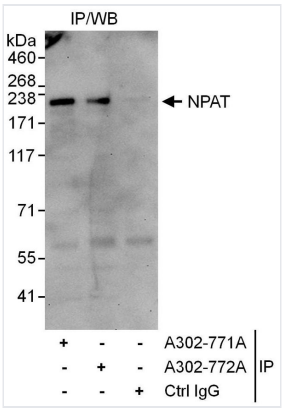
NPAT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPAT, Polyclonal Antibody
Full Product Name	Rabbit anti-NPAT Antibody, Affinity Purified
Product Gene Name	anti-NPAT antibody
Product Synonym Names	nuclear protein of the ataxia telangiectasia mutated locus; p220; nuclear protein, co-activator of histone transcription; nuclear protein of the ATM locus; E14/NPAT; E14; protein NPAT; nuclear protein, ataxia-telangiectasia locus; Protein NPAT; nuclear protein, coactivator of histone transcription
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	154,290 Da
OMIM	D83243 mRNA
3D Structure	ModBase 3D Structure for Q14207
Immunogen	Between 700 and 750
Conjugation	Unconjugated
Product Categories/Family for anti-NPAT antibody	Primary Antibodies
Applications Tested/Suitable for anti-NPAT antibody	Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-NPAT antibody	IP: 6ug/mg lysate IHC: 1:1000-1:5000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-NPAT antibody	NPAT (nuclear protein of the ataxia telangiectasia mutated locus) is required for progression through the G1 and S phases of the cell cycle and for S phase entry. It activates transcription of the histone H2A, histone H2B, histone H3 and histone H4 genes in conjunction with MIZF. NPAT also positively regulates the ATM, MIZF and PRKDC promoters. Transcriptional activation may be accomplished at least in part by the recruitment of the NuA4 histone acetyltransferase (HAT) complex to target gene promoters [taken from the Universal Protein Resource (UniProt) ww.uniprot.org/uniprot/Q14207].
Other Notes	Small volumes of anti-NPAT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPAT purchase	MBS3903121 is an antibody targeting NPAT. Also known as Rabbit anti-NPAT Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-NPAT antibody
Detection of human NPAT by immunohistochemistry. Sample: FFPE section of human colon carcinoma. Antibody: Affinity purified rabbit anti-NPAT (Cat. No. MBS3903121 Lot1) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



Immunoprecipitation (IP) of anti-NPAT antibody
Detection of human NPAT by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from HEK293T cells. Antibodies: Affinity purified rabbit anti-NPAT antibody MBS3903121 used for IP at 3 ug/mg lysate. NPAT was also immunoprecipitated by rabbit anti-NPAT antibody MBS3903122, which recognizes a downstream epitope. For blotting immunoprecipitated NPAT, MBS3903122 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPAT. It may not necessarily be applicable to this product.

NCBI GI #	155969714
NCBI GeneID	4863
NCBI Accession #	NP_002510.2
UniProt Primary Accession #	Q14207
UniProt Secondary Accession #	Q13632; Q14967; Q16580; Q86W55; Q8IWE9; A8K1V5; A8K6M2
UniProt Related Accession #	Q14207
GenBank Nucleotide #	NM_002519.2
NCBI Official Full Name	protein NPAT isoform 2
NCBI Official Synonym Full Names	nuclear protein, coactivator of histone transcription
NCBI Official Symbol	NPAT
NCBI Official Synonym Symbols	E14; p220; E14/NPAT
UniProt Protein Name	Protein NPAT
UniProt Synonym Protein Names	Nuclear protein of the ataxia telangiectasia mutated locus; Nuclear protein of the ATM locus; p220
Protein Family	Protein
UniProt Gene Name	NPAT
UniProt Synonym Gene Names	CAND3; E14; Nuclear protein of the ATM locus
NCBI Protein Information	protein NPAT
UniProt Comments for NPAT	Required for progression through the G1 and S phases of the cell cycle and for S phase entry. Activates transcription of the histone H2A, histone H2B, histone H3 and histone H4 genes in conjunction with MIZF. Also positively regulates the ATM, MIZF and PRKDC promoters. Transcriptional activation may be accomplished at least in part by the recruitment of the NuA4 histone acetyltransferase (HAT) complex to target gene promoters.
Research Articles on NPAT	**1.** Cpn10 has a role in the spatial regulation of NPAT signaling

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