

## THO Complex Subunit 1 Rabbit mAb

Catalog No: #52474

Package Size: #52474-1 50ul #52474-2 100ul

Orders: order@signalwayantibody.com

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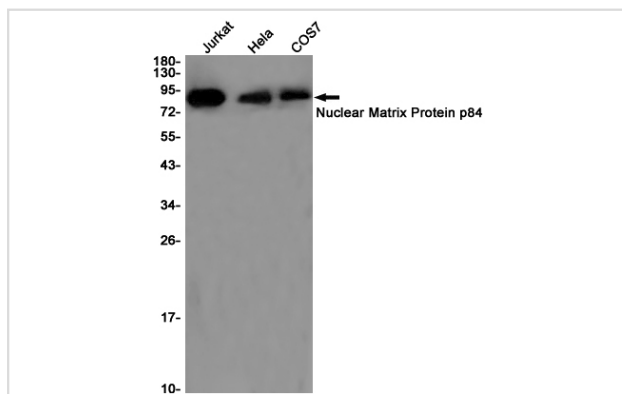
## Description

Product Name	THO Complex Subunit 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S05-1A8
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IF
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human Nuclear Matrix Protein p84
Conjugates	Unconjugated
Modification	Unmodification
Other Names	P84; HPR1; P84N5
Accession No.	Swiss-Prot:Q96FV9GeneID:
Uniprot	Q96FV9
Calculated MW	Calculated MW: 76 kDa; Observed MW: 84 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

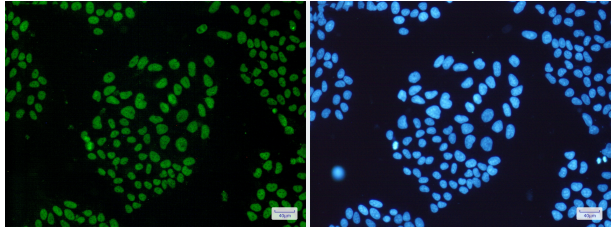
## Application Details

WB: 1/1000-1/5000; ICC/IF: 1/20-1/50

## Images



Western blot detection of Nuclear Matrix Protein p84 in Jurkat, HeLa, COS7 cell lysates using Nuclear Matrix Protein p84 Rabbit mAb (1:1000 diluted). Predicted band size: 76 kDa. Observed band size: 84 kDa.



Immunofluorescence of Nuclear Matrix Protein p84(green) in HeLa cells using Nuclear Matrix Protein p84 Rabbit mAb at dilution 1/50, and DAPI(blue)

## Background

Swiss-Prot Acc.Q96FV9. Required for efficient export of polyadenylated RNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. Regulates transcriptional elongation of a subset of genes. Involved in genome stability by preventing co-transcriptional R-loop formation. Participates in an apoptotic pathway which is characterized by activation of caspase-6, increases in the expression of BAK1 and BCL2L1 and activation of NF-kappa-B. This pathway does not require p53/TP53, nor does the presence of p53/TP53 affect the efficiency of cell killing. Activates a G2/M cell cycle checkpoint prior to the onset of apoptosis. Apoptosis is inhibited by association with RB1.

Note: This product is for in vitro research use only