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Product datasheet for TA385407M

Nuclear Matrix Protein p84 (THOC1) Rabbit Monoclonal Antibody [Clone ID: R05-1A8]

Product data:

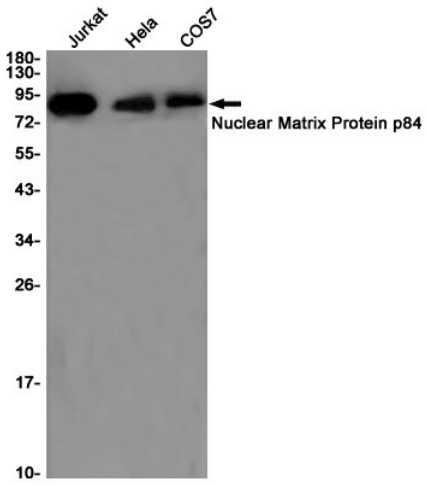
Product Type:	Primary Antibodies
Clone Name:	R05-1A8
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000-1/5000 ICC/IF: 1/20-1/50
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Nuclear Matrix Protein p84
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 76 kDa; Observed MW: 84 kDa
Gene Name:	THO complex 1
Database Link:	Entrez Gene 9984 Human Q96FV9

View online »

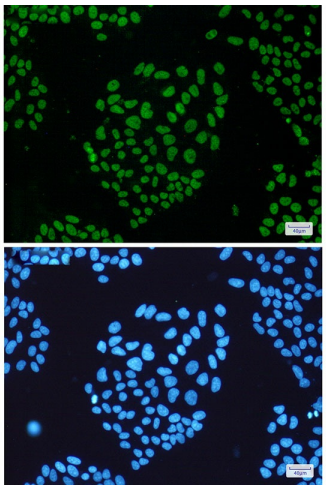
Background: Swiss-Prot Acc.Q96FV9.Required for efficient export of polyadenylated RNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. 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.

Synonyms: HPR1; hTREX84; P84; P84N5; Tho1

Product images:



Western blot analysis of Nuclear Matrix Protein p84 in Jurkat, Hela, COS7 lysates using THO Complex Subunit 1 antibody.



Immunocytochemistry analysis of Nuclear Matrix Protein p84(green) in Hela using Nuclear Matrix Protein p84 antibody,and DAPI(blue)