



Anti-ALYREF (aa 59-89) polyclonal antibody (DPABH-23927)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Component of the THO subcomplex of the TREX complex. The TREX complex specifically associates with spliced mRNA and not with unspliced pre-mRNA. It 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. The recruitment occurs via an interaction between THOC4 and the cap-binding protein NCBP1. DDX39B functions as a bridge between THOC4 and the THO complex. TREX complex is essential for the export of Kaposi sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. The recruitment of the TREX complex to the intronless viral mRNA occurs via an interaction between KSHV ORF57 protein and THOC4. THOC4 in conjunction with THOC5 functions in NXF1-NXT1 mediated nuclear export of HSP70 mRNA. Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Acts as chaperone and promotes the dimerization of transcription factors containing basic leucine zipper (bZIP) domains and thereby promotes transcriptional activation. Plays a role in mRNA processing and export. May function as scaffold that mediates interactions between proteins and/or RNA. Is part of the exon junction complex that remains associated with spliced mRNA and plays an important role in mRNA export and nonsense-mediated RNA decay. Directs mRNA derived from Herpes simplex virus intron-less genes to the NXF1-mediated export pathway.

Immunogen	Synthetic peptide conjugated to KLH, corresponding to a region within internal sequence amino acids 59-89 of Human Aly (Q86V81, NP_005773.3).
Isotype	IgG
Source/Host	Rabbit

Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Size	100 µl
Buffer	Constituent: 99% PBS
Preservative	0.09% Sodium Azide
Storage	Store at 4°C (up to 6 months). For long term storage store at -20°C

GENE INFORMATION

Gene Name	ALYREF Aly/REF export factor [Homo sapiens]
Official Symbol	ALYREF
Synonyms	ALYREF; Aly/REF export factor; ALY; BEF; REF; THOC4; ALY/REF; THO complex subunit 4; tho4; THO complex 4; bZIP enhancing factor; ally of AML-1 and LEF-1; bZIP-enhancing factor BEF; transcriptional coactivator Aly/REF;
Entrez Gene ID	10189
Protein Refseq	NP_005773.3
UniProt ID	E9PB61
Pathway	Cleavage of Growing Transcript in the Termination Region; Exon junction complex (EJC); Herpes simplex infection; Processing of Capped Intron-Containing Pre-mRNA
Function	nucleotide binding; poly(A) RNA binding; protein binding;