



# ALY Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-01526
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	ALYREF
<b>Protein Name</b>	THO complex subunit 4
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human THOC4. AA range:121-170
<b>Specificity</b>	ALY Monoclonal Antibody detects endogenous levels of ALY protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ALYREF; ALY; BEF; THOC4; THO complex subunit 4; Tho4; Ally of AML-1 and LEF-1; Aly/REF export factor; Transcriptional coactivator Aly/REF; bZIP-enhancing factor BEF
<b>Observed Band</b>	27kD
<b>Cell Pathway</b>	Nucleus . Nucleus speckle . Cytoplasm . Colocalizes with the core EJC, ALYREF/THOC4, NXF1 and DDX39B in the nucleus and nuclear speckles. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA (PubMed:19324961). Localizes to regions surrounding nuclear speckles known as perispeckles in which TREX complex assembly seems to occur (PubMed:23826332). .
<b>Tissue Specificity</b>	Expressed in a wide variety of cancer types.
<b>Function</b>	disease:Antibodies against THOC4 are found in sera of patients with systemic lupus erythematosus (SLE).,function: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. Integral part of the THO/TREX complex that is recruited to transcribed genes and travels with the RNA polymerase during elongation. 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.,PTM:Arg-50 and Arg-204 are dimethylated, probably to asymmetric dimethylarginine.,PTM:Phosphorylated upo

#### Background

The protein encoded by this gene is a heat stable, nuclear protein and functions as a molecular chaperone. It is thought to regulate dimerization, DNA binding, and transcriptional activity of basic region-leucine zipper (bZIP) proteins. [provided by RefSeq, Jul 2008],

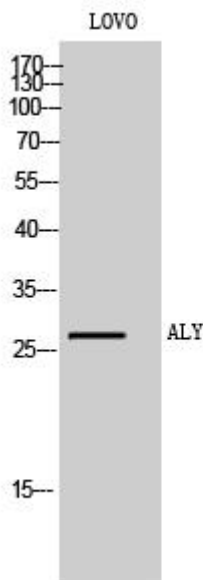
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using ALY Monoclonal Antibody