

For Research Use Only

# DHX37 Monoclonal antibody

Catalog Number: 67853-1-Ig



## Basic Information

<b>Catalog Number:</b> 67853-1-Ig	<b>GenBank Accession Number:</b> BC037964	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57647	<b>CloneNo.:</b> 2B12D9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8IY37	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> DEAH (Asp-Glu-Ala-His) box polypeptide 37	
<b>Immunogen Catalog Number:</b> AG29909	<b>Calculated MW:</b> 1157 aa, 130 kDa	
	<b>Observed MW:</b> 130-140 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB :</b> LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells <b>IF :</b> HeLa cells,

## Background Information

DHX37, also known as DDX37, KIAA1517. It is an ATP-bound RNA helicase that plays a role in the maturation of small ribosomal subunits in ribosomal biogenesis (PMID:30582406). The presence of DHX37 in early pre-ribosomal particles was monitored by a quality control pathway, and failure to recruit DHX37 resulted in pre-RRNA degradation. DHX37 binds directly to U3 small nucleolar RNA (snoRNA), and the catalytic activity of the helicase is required for dissociation of U3 small nucleolar RNA from the pre-ribosomal complex. In addition, it plays a role in early testicular development (PMID:31287541, PMID:31337883). It may also have an effect on brain development (PubMed:31256877). It is expressed in the fallopian tubes, ovaries, uterus, testes and brain (PMID: 31256877, PMID: 31337883).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

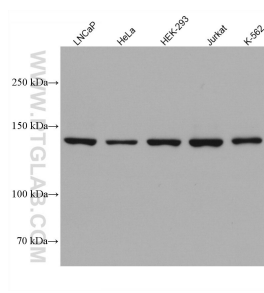
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

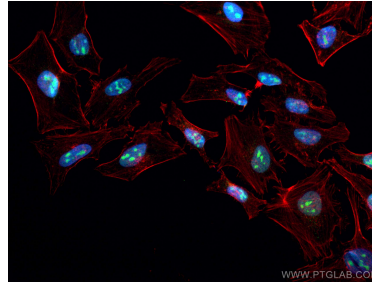
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

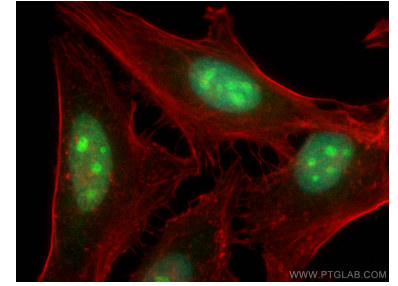
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67853-1-Ig (DHX37 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using DHX37 antibody (67853-1-Ig, Clone: 2B12D9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using DHX37 antibody (67853-1-Ig, Clone: 2B12D9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).