

For Research Use Only

# DDX59 Polyclonal antibody

Catalog Number: 32948-1-AP



## Basic Information

<b>Catalog Number:</b> 32948-1-AP	<b>GenBank Accession Number:</b> BC041801	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 350 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 83479	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5T1V6	
<b>Isotype:</b> IgG	<b>Full Name:</b> DEAD (Asp-Glu-Ala-Asp) box polypeptide 59	
<b>Immunogen Catalog Number:</b> AG37657	<b>Calculated MW:</b> 619 aa, 69 kDa	
	<b>Observed MW:</b> 75 kDa	

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : A549 cells, Calu-1 cells, NCI-H1299 cells, Neuro-2a cells, U-87 MG cells

IHC : human breast cancer tissue,

## Background Information

DEAD box proteins are multifunctional proteins involved in every aspect in RNA metabolism and have essential roles in many cellular activities. DDX59 is overexpressed in lung adenocarcinoma. DDX59 knockdown reduced cell proliferation, anchorage-independent cell growth, and caused reduction of tumor formation in immunocompromised mice. In multiple lung cancer cells, DDX59 knockdown inhibits DNA synthesis; wild-type DDX59 but not helicase-defective mutant of DDX59 enhances DNA synthesis. DDX59 knockdown caused reduction of MCM protein levels, decreased the loading of MCM ring protein onto chromatin, and therefore inhibited DNA replication. DDX59 has an important role in lung cancer development through promoting DNA replication (PMID: 28090355).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

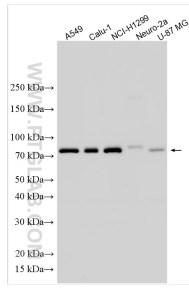
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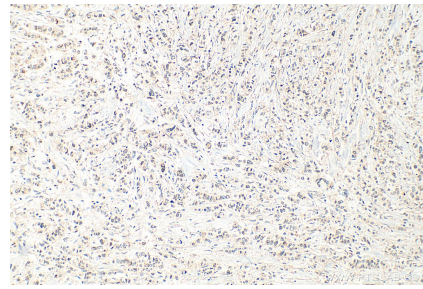
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32948-1-AP (DDX59 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 32948-1-AP (DDX59 antibody) at dilution of 1:200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).