

For Research Use Only

# FDX1 Polyclonal antibody

Catalog Number: 34182-1-AP



## Basic Information

<b>Catalog Number:</b> 34182-1-AP	<b>GenBank Accession Number:</b> BC017063	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 390 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 14148	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P46656	
<b>Isotype:</b> IgG	<b>Full Name:</b> ferredoxin 1	
<b>Immunogen Catalog Number:</b> AG41687	<b>Calculated MW:</b> 184 aa, 19 kDa	
	<b>Observed MW:</b> 15 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
mouse, rat

**Positive Controls:**

WB : mouse lung tissue, rat testis tissue, mouse testis tissue, rat liver tissue

## Background Information

Ferredoxin 1 (FDX1) is a small mitochondrial protein and recent studies have shown that FDX1 plays an important role in tumor cuproptosis. FDX1 expression is significantly downregulated in HCC tissues. FDX1 downregulation promotes HCC cell proliferation, invasion in vitro and growth, metastasis in vivo. In addition, FDX1 affects metabolism of HCC cells and is associated with autophagy (PMID: 39128228). FDX1 is localized to the mitochondria and contains a 64-amino-acid mitochondrial transit peptide that is cleaved during post-translational processing.

## 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

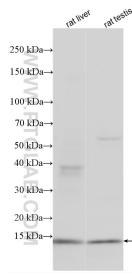
For technical support and original validation data for this product please contact:

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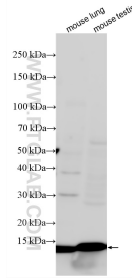
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 34182-1-AP (FDX1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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