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**Product Name: DHS Rabbit Polyclonal Antibody****Catalog #: APRab09974**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	45kDa

**Antigen Information**

<b>Gene Name</b>	DHPS
<b>Alternative Names</b>	DHPS; DS; Deoxyhypusine synthase; DHS
<b>Gene ID</b>	1725.0
<b>SwissProt ID</b>	P49366
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100

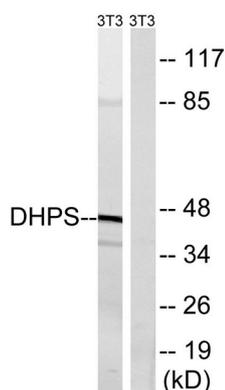
**Background**

This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational

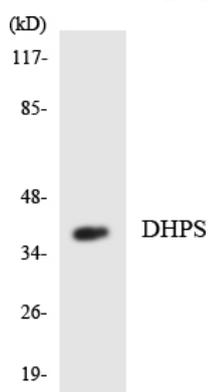
modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring the butylamine moiety of spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2011],catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of dimers.,

## Research Area

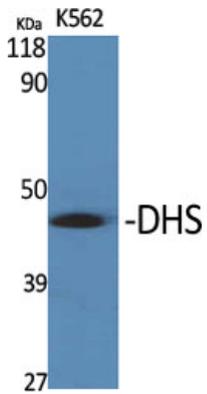
### Image Data



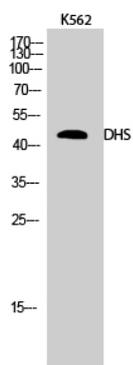
Western blot analysis of lysates from NIH/3T3 cells, using DHPS Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using DHPS antibody.



Western Blot analysis of various cells using DHS Polyclonal Antibody



Western Blot analysis of K562 cells using DHS Polyclonal Antibody