

## DHS Polyclonal Antibody

<b>Catalog No :</b>	YT1350
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	DHS
<b>Gene Name :</b>	DHPS
<b>Protein Name :</b>	Deoxyhypusine synthase
<b>Human Gene Id :</b>	1725
<b>Human Swiss Prot No :</b>	P49366
<b>Mouse Swiss Prot No :</b>	Q3TXU5
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100
<b>Specificity :</b>	DHS Polyclonal Antibody detects endogenous levels of DHS protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	45kD

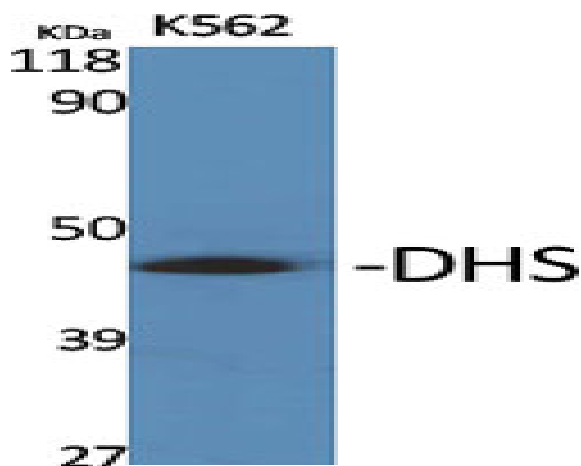
**Background :** This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring 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],

**Function :** 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.,

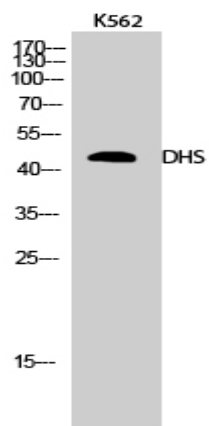
**Subcellular Location :** cytoplasm,cytosol,

**Expression :** Blood,Brain,Cervix carcinoma,Lung,

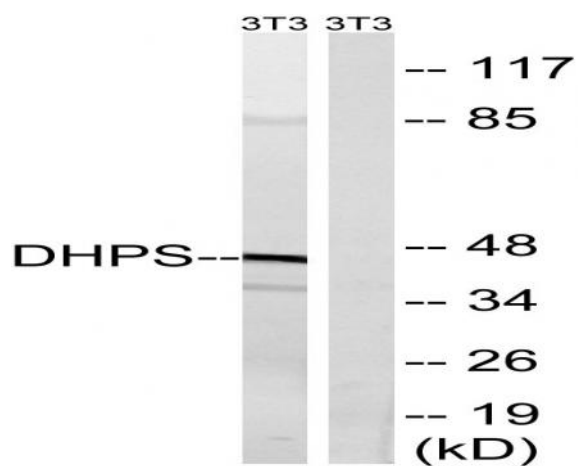
## Products Images



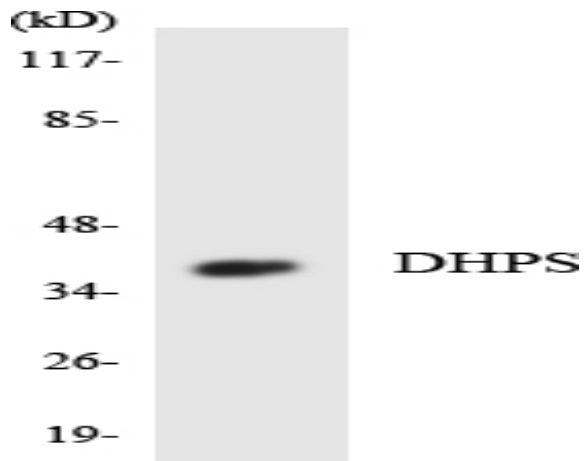
Western Blot analysis of various cells using DHS Polyclonal Antibody



Western Blot analysis of K562 cells using DHS Polyclonal Antibody



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.