



DHS Monoclonal Antibody

Catalog No	YP-mAb-02621
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	DHPS
Protein Name	Deoxyhypusine synthase
Immunogen	The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100
Specificity	DHS Monoclonal Antibody detects endogenous levels of DHS protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DHPS; DS; Deoxyhypusine synthase; DHS
Observed Band	45kD
Cell Pathway	cytoplasm,cytosol,
Tissue Specificity	Blood,Brain,Cervix carcinoma,Lung,
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.,
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



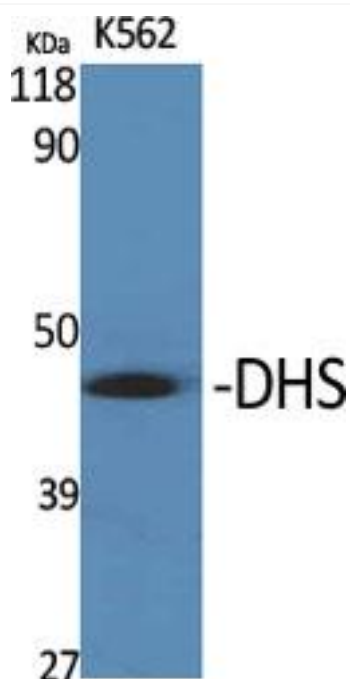
spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2011],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using DHS Monoclonal Antibody