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Anti-DHPS Antibody

Catalog # AP59535

Product Information

Application	WB, IHC
Primary Accession	P49366
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40971

Additional Information

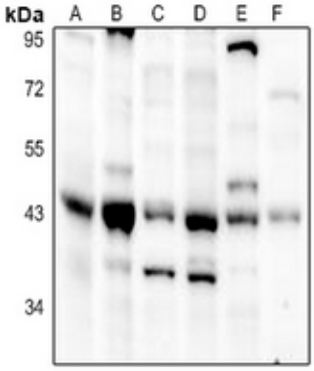
Gene ID	1725
Other Names	DS; Deoxyhypusine synthase; DHS
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DHPS. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

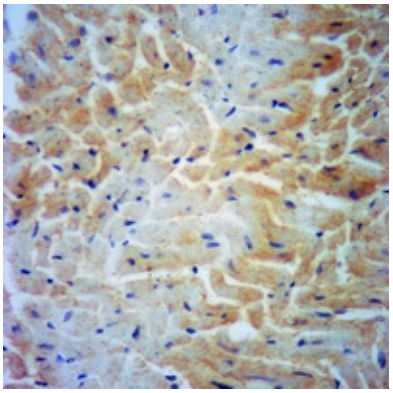
Name	DHPS
Synonyms	DS
Function	Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a critical lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue (PubMed:30661771). This is the first step of the post-translational modification of that lysine into an unusual amino acid residue named hypusine. Hypusination is unique to mature eIF-5A factor and is essential for its function.

Images

Western blot analysis of DHPS expression in mouse heart



(A), Jurkat (B), 3T3L1 (C), PMVEC (D), rat lung (E), mouse spleen (F) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 45 kD)



Immunohistochemical analysis of DHPS staining in human stomach cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.