



Rabbit Anti-DCPS antibody

SL12987R

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| Product Name: | DCPS |
| Chinese Name: | 清道夫脱帽酶/热休克蛋白1抗体 |
| Alias: | 1700001E16Rik; AA408441; DCPS; DCPS_HUMAN; DCS 1; DCS-1; DCS1; Decapping enzyme scavenger; heat shock-like protein 1; Hint 5; Hint related 7meGMP directed hydrolase; HINT-5; Hint-related 7meGMP-directed hydrolase; HINT5; Histidine triad protein member 5; homolog of C. elegans 7meGMP-directed hydrolase dcs-1; HSL1; HSPC015; m7GpppX diphosphatase; MGC124934; mRNA decapping enzyme; OTTMUSP00000042220; Scavenger mRNA decapping enzyme DcpS; Scavenger mRNA-decapping enzyme DcpS. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 38kDa |
| Cellular localization: | The nucleuscytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human DCPS:101-200/337 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | Eukaryotic cells primarily utilize exoribonucleases and decapping enzymes to degrade |

their mRNA. DcpS is a scavenger pyrophosphatase that hydrolyzes the residual cap structure following 3' to 5' decay of an mRNA. Following mRNA degradation DcpS releases N-7 methyl guanosine monophosphate and 5'-diphosphate terminated cap or mRNA products. The central histidine within the DcpS HIT motif is critical for decapping activity and defines the HIT motif as a new mRNA decapping domain, making DcpS the first member of the HIT family of proteins with a defined biological function. HIT proteins are homodimeric and contain two conserved 100-amino-acid HIT fold domains with independent active sites that are each sufficient to bind and hydrolyze cognate substrates.

Function:

Necessary for the complete degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. Removes the 7-methyl guanine cap structure from mRNA fragments shorter than 10 nucleotides that are produced by 3'->5' exosome-mediated mRNA decay. Releases m7GMP. Can also degrade m7GDP to m7GMP. Has no activity towards mRNA molecules longer than 25 nucleotides.

Subunit:

Homodimer. Associates with components of the exosome multienzyme ribonuclease complex, such as EXOSC3 and EXOSC4. Interacts with NDOR1.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Detected in liver, brain, kidney, testis and prostate.

Similarity:

Belongs to the HIT family.

SWISS:

Q96C86

Gene ID:

28960

Database links:

[Entrez Gene: 28960](#)Human

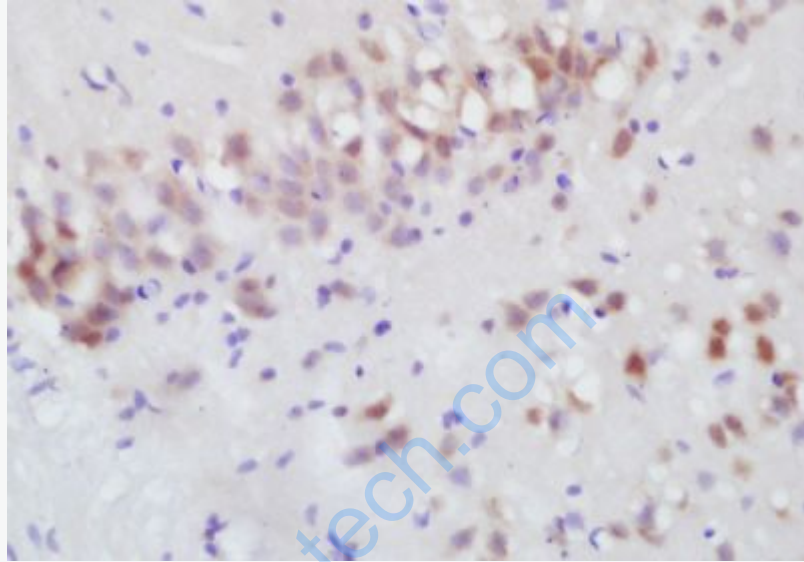
[Omim: 610534](#)Human

[SwissProt: Q96C86](#)Human

[Unigene: 504249](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-DCPS Polyclonal Antibody, Unconjugated(SL12987R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining