

OSGEP Rabbit pAb

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Catalog # AP56733

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NPF4
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Zebrafish, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36427
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OSGEP
Epitope Specificity	121-220/335
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	O-sialoglycoprotein endopeptidases cleave the polypeptide backbone of membrane glycoproteins that contain clusters of O-linked sialoglycans. Osgsep (O-sialoglycoprotein endopeptidase), also known as GCPL1, is a 335 amino acid protein that is a member of the peptidase M22 family. Osgsep specifically cleaves the 31-Arg-I-Asp-32 bond in glycophorin A, but it does not cleave desialylated glycoproteins, unglycosylated proteins or glycoproteins that are only N-glycosylated. Though ubiquitously expressed at low levels, highest levels of Osgsep are found in liver, skeletal muscle and kidney. OSGEPL1, also known as Qri7, is a 414 amino acid protein that belongs to the KAE1/YgjD family and exists as three alternatively spliced isoforms. In tRNAs that have codons beginning with adenine, OSGEPL1 is required for the formation of a threonylcarbamoyl group on adenosine.

Additional Information

Gene ID	55644
Other Names	tRNA N6-adenosine threonylcarbamoyltransferase {ECO:0000255 HAMAP-Rule:MF_03180}, 2.3.1.234 {ECO:0000255 HAMAP-Rule:MF_03180, ECO:0000305 PubMed:28805828}, N6-L-threonylcarbamoyladenine synthase, t(6)A synthase, O-sialoglycoprotein endopeptidase {ECO:0000255 HAMAP-Rule:MF_03180}, hOSGEP, t(6)A37 threonylcarbamoyladenine biosynthesis protein OSGEP {ECO:0000255 HAMAP-Rule:MF_03180}, tRNA threonylcarbamoyladenine biosynthesis protein OSGEP {ECO:0000255 HAMAP-Rule:MF_03180}, OSGEP {ECO:0000255 HAMAP-Rule:MF_03180, ECO:0000303 PubMed:12039036}

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

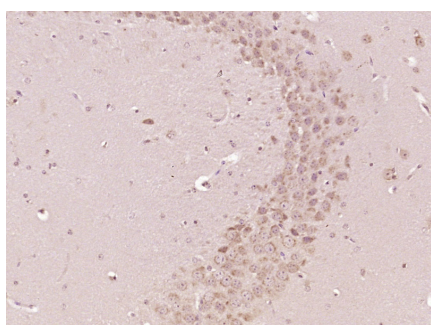
Protein Information

Name	OSGEP {ECO:0000255 HAMAP-Rule:MF_03180, ECO:0000303 PubMed:12039036}
Function	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. OSGEP likely plays a direct catalytic role in this reaction, but requires other protein(s) of the complex to fulfill this activity.
Cellular Location	Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03180, ECO:0000269 PubMed:28805828}. Nucleus {ECO:0000255 HAMAP-Rule:MF_03180, ECO:0000269 PubMed:22912744, ECO:0000269 PubMed:28805828}
Tissue Location	Widely expressed at low level. Expressed in heart, placenta, liver, kidney, lung, brain, skeletal muscle and pancreas

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OSGEP) Polyclonal Antibody, Unconjugated (AP56733) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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