À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-DNMT2

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Numéro de catalogue:19221-1-AP Phare 2 Publications

Informations de base

Numéro de catalogue:
19221-1-AP

Taille:
150ul , Concentration: 260 μg/ml by Nanodrop and 133 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG5571

Numéro d'acquisition GenBank:
BC047733

Identification du gène (NCBI):
1787

Nom complet:
tRNA aspartic acid methyltransferase 1

MW calculé
45 kDa

MW observés:
43-45 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:2000

Applications

Applications testées:
WB, ELISA

Demandes citées:
WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain

Contrôles positifs:

WB : cellules HeLa, cellules HEK-293, cellules MCF-7, tissu hépatique de souris

Informations générales

Dnmt2 was initially assigned a member of the DNA methyltransferase family on the basis of its extensive homology with eukaryotic and prokaryotic DNA-(cytosine C5)-methyltransferases . However, in the apparent absence of a phenotype in dnmt2 knockout cells, Dnmt2's possible biological function remained unknown , even though Dnmt2 is strongly conserved and it is found in species ranging from Schizosaccharomyces pombe to human. Later very weak, residual DNA methylation activity was found with enzymes from different species. The finding that Dnmt2 is an active RNA methyltransferase capable of methylating the C38 position of the tRNA Asp came as a surprise . However, still no cellular function of the tRNA Asp methylation has been found, although in Zebrafish Dnmt2 knock-down caused a developmental phenotype . It is very intriguing that an enzyme that looks like a DNA methyltransferase can methylate RNA, in particular since the RNA and DNA specific m5 C methyltransferases use different catalytic residues and a different mechanism for the methyl transfer reaction . the predicted molecular weight of Dnmt2 is 45 kDa, but it may migrate to the 40 kDa (PMID: 18567810)

Publications notables

Autrice	Pubmed ID	Journal	Application
Lijie Zhou	34185414	Clin Transl Med	WB
Ulrike Schumann	32293435	BMC Biol	WB

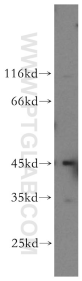
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

***** Les 20ul contiennent 0,1% de BSA.**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Données de validation sélectionnées



HeLa cells were subjected to SDS PAGE followed by western blot with 19221-1-AP (DNMT2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.