

Allgemeine Informationen

Katalog-Nr.: 19221-1-AP	GenBank-Zugangsnummer: BC047733	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul , Konzentration: 260 µg/ml von Nanodrop und 133 µg/ml durch die Bradford-Methode mit BSA als Standard;	GeneID (NCBI): 1787	Empfohlene Verdünnungen: WB 1:500-1:2000
Wirt: Kaninchen	Vollständiger Name: tRNA aspartic acid methyltransferase 1	
Isotyp: IgG	Berechnete Masse: 45 kDa	
Immunogen Katalognummer: AG5571	Beobachtete Masse: 43-45 kDa	

Anwendungen

Geprüfte Anwendungen: WB, ELISA	Positivkontrollen: WB : HeLa-Zellen, HEK-293-Zellen, Mauslebergewebe, MCF-7-Zellen
In Publikationen genannte Anwendungen: WB	
Getestete Reaktivität: Human, Maus, Ratte	
Zitierte Arten: Human	

Hintergrundinformationen

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)

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Lijie Zhou	34185414	Clin Transl Med	WB
Ulrike Schumann	32293435	BMC Biol	WB

Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

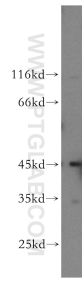
For technical support and original validation data for this product please contact:

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

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Ausgewählte Validierungsdaten



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.