10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PARP16 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6299d

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8N5Y8
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26311
Calculated MW	36383
Antigen Region	215-244

Additional Information

Gene ID	54956
Other Names	Mono [ADP-ribose] polymerase PARP16, ADP-ribosyltransferase diphtheria toxin-like 15, Poly [ADP-ribose] polymerase 16, PARP-16, PAR16
Target/Specificity	This PARP16 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 215-244 amino acids from the C-terminal region of human PARP16.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PARP16 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PARP16 {ECO:0000303|PubMed:20106667, ECO:0000312|HGNC:HGNC:26040}
Function	Intracellular mono-ADP-ribosyltransferase that plays a role in different

processes, such as protein translation and unfolded protein response (UPR), through the mono-ADP-ribosylation of proteins involved in those processes (PubMed:22701565, PubMed:23103912, PubMed:25043379, PubMed:34314702). Acts as an inhibitor of protein translation by catalyzing mono-ADP-ribosylation of ribosomal subunits, such as RPL14 and RPS6, thereby inhibiting polysome assembly and mRNA loading (PubMed:34314702). Mono-ADP-ribosylation of ribosomal subunits is promoted by NMNAT2 (PubMed:34314702). Involved in the unfolded protein response (UPR) by ADP-ribosylating and activating EIF2AK3 and ERN1, two important UPR effectors (PubMed:23103912). May also mediate mono-ADP-ribosylation of karyopherin KPNB1 a nuclear import factor (PubMed:22701565). May not modify proteins on arginine or cysteine residues compared to other mono-ADP-ribosyltransferases (PubMed:22701565).

Cellular Location Endoplasmic reticulum membrane; Single-pass type IV membrane protein

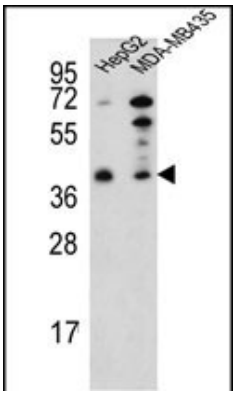
Background

The function of this protein has not been specifically defined.

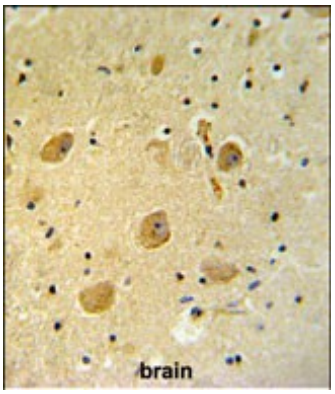
References

Ame, J.C., et al. Bioessays 26(8):882-893(2004)

Images

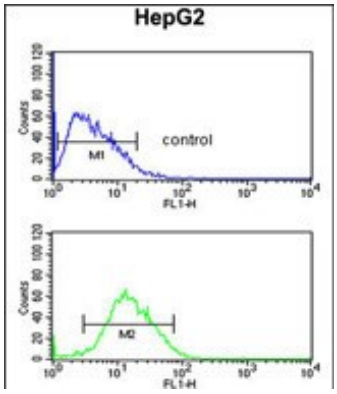


Western blot analysis of PARP16 Antibody (C-term) (Cat. #AP6299d) in HepG2,MDA-MB435 cell line lysates (35ug/lane).PARP16 (arrow) was detected using the purified Pab.



PARP16 Antibody (C-term) (Cat. #AP6299d) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PARP16 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PARP16 Antibody (C-term) (Cat. #AP6299d) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary



antibodies were used for the analysis.

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