

Rabbit anti-Human PARG Polyclonal Antibody | anti-PARG antibody

PARG Antibody (C-term)

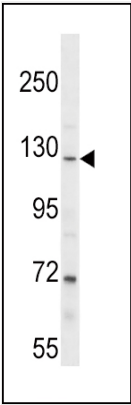
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285902	Rabbit	Human	ELISA, Western Blot

PRODUCT SYNONYMS

PARG; Polyclonal Antibody; PARG Antibody (C-term); Poly(ADP-ribose) glycohydrolase; anti-PARG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PARG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 821-849 amino acids from the C-terminal region of human PARG.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	821-849
Sequence Length	976
Applicable Applications for anti-PARG antibody	ELISA, WB (Western Blot)
Cellular Location	[Isoform 1]: Nucleus Note=Colocalizes withPCNA at replication foci (PubMed:21398629) Relocalizes to the cytoplasm in response toDNA damage (PubMed:16460818). [Isoform3]: Cytoplasm [Isoform 5]: Mitochondrionmatrix
Tissue Location	Ubiquitously expressed.
Preparation and 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.



WB (Western Blot)
PARG Antibody (C-term) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the PARG antibody detected the PARG protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PARG antibody	Background: Poly(ADP-ribose) glycohydrolase (PARG) is the major enzyme responsible for the catabolism of poly(ADP-ribose), a reversible covalent-modifier of chromosomal proteins. The protein is found in many tissues and may be subject to proteolysis generating smaller, active products. Function: Poly(ADP-ribose) glycohydrolase that degrades poly(ADP-ribose) by hydrolyzing the ribose-ribose bonds present in poly(ADP-ribose) (PubMed: 21892188, PubMed: 23102699, PubMed: 23474714). PARG acts both as an endo- and exoglycosidase, releasing poly(ADP-ribose) of different length as well as ADP-ribose monomers (PubMed: 23102699, PubMed: 23481255). It is however unable to cleave the ester bond between the terminal ADP-ribose and ADP-ribosylated residues, leaving proteins that are mono-ADP-ribosylated (PubMed: 21892188, PubMed: 23474714). Poly(ADP-ribose) is synthesized after DNA damage and is only present transiently and is rapidly degraded by PARG (PubMed: 23102699). Required to prevent detrimental accumulation of poly(ADP-ribose) upon prolonged replicative stress, while it is not required for recovery from transient replicative stress (PubMed: 24906880). Required for retinoid acid-dependent gene transactivation, probably by removing poly(ADP-ribose) from histone demethylase KDM4D, allowing chromatin derepression at RAR-dependent gene promoters (PubMed: 23102699). Involved in the synthesis of ATP in the nucleus, together with PARP1, NMNAT1 and NUDT5 (PubMed: 27257257). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed: 27257257).
References	Whatcott, C.J., et al. Exp. Cell Res. 315(20):3477-3485(2009) Frizzell, K.M., et al. J. Biol. Chem. 284(49):33926-33938(2009) Erdelyi, K., et al. FASEB J. 23(10):3553-3563(2009) Ame, J.C., et al. J. Cell. Sci. 122 (PT 12), 1990-2002 (2009) : Uchiumi, F., et al. Genes Cells 13(12):1229-1247(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	70610136
NCBI GeneID	8505
NCBI Accession #	NP_003622.2
NCBI GenBank Nucleotide #	NM_003631.3
UniProt Accession #	Q86W56 ; Q6E4P6 ; Q6E4P7 ; Q7Z742 ; Q9Y4W7 ; A5YBK3 ; B2RC24 ; B4DIU5 ; B4DYR4 ; I6RUV3
Molecular Weight	111110
NCBI Official Full Name	poly(ADP-ribose) glycohydrolase isoform a
NCBI Official Synonym Full Names	poly (ADP-ribose) glycohydrolase
NCBI Official Symbol	PARG

NCBI Official Synonym Symbols	PARG99
NCBI Protein Information	poly(ADP-ribose) glycohydrolase
UniProt Protein Name	Poly(ADP-ribose) glycohydrolase
UniProt Gene Name	PARG
UniProt Entry Name	PARG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/parg-antibody-western-blot-elisa/285902>