abcam

Product datasheet

Recombinant human PARP3/IRT1 protein ab79638

2 Images

Description

Product name	Recombinant human PARP3/IRT1 protein
Biological activity	Specific Activity: 207.5 U/mg.
Purity	> 80 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Specifications

Our **Abpromise guarantee** covers the use of **ab79638** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid
Additional notes	Protein previously labeled as PARP3.

Preparation and Storage

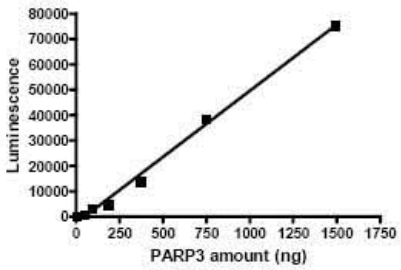
Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a

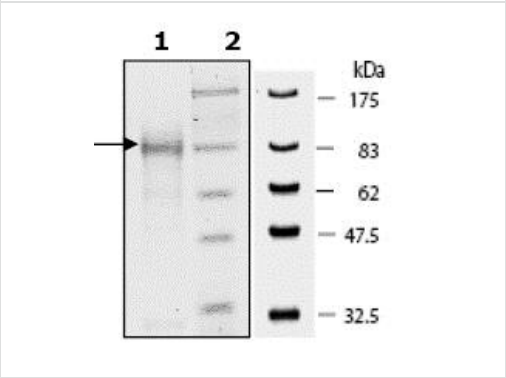
	limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. May link the DNA damage surveillance network to the mitotic fidelity checkpoint. Negatively influences the G1/S cell cycle progression without interfering with centrosome duplication. Binds DNA. May be involved in the regulation of PRC2 and PRC3 complex-dependent gene silencing.
Tissue specificity	Widely expressed; the highest levels are in the kidney, skeletal muscle, liver, heart and spleen; also detected in pancreas, lung, placenta, brain, leukocytes, colon, small intestine, ovary, testis, prostate and thymus.
Sequence similarities	Contains 1 PARP alpha-helical domain. Contains 1 PARP catalytic domain.
Domain	According to PubMed:10329013, the N-terminal domain (54 amino acids) of isoform 2 is responsible for its centrosomal localization. The C-terminal region contains the catalytic domain.
Post-translational modifications	Auto-poly(ADP)-ribosylation.
Cellular localization	Nucleus. Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > centrosome > centriole. Core component of the centrosome. Preferentially localized to the daughter centriole throughout the cell cycle. According to PubMed:16924674, it is almost exclusively localized in the nucleus and appears in numerous small foci and a small number of larger foci whereas a centrosomal location has not been detected.

Images



Functional Studies - Recombinant human PARP3/IRT1 protein (ab79638)

PARP3/IRT1 assay - Specific activity 207.5 U/mg



SDS-PAGE - Recombinant human PARP3/IRT1 protein (ab79638)

ab79638 on SDS-PAGE, Molecular Weight 87 kDa

10% SDS-PAGE, Coomassie staining

Lane 1: ab79638 6µg

Lane 2: Protein marker

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