abcam

Product datasheet

Recombinant human PARP2 protein ab198766

1 References 2 Images

Description

Product name	Recombinant human PARP2 protein
Biological activity	Unit Definition: One unit of PARP incorporates 100 pmoles of poly(ADP) in 1 minute from NAD into the acid-insoluble form. Assay Conditions: Enzyme reaction is conducted using a PARP2 Assay Kit at room temperature for 1 hour.
Purity	>= 12 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	Q9UGN5
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	AARRRRSTGGGRARALNESKRVNNGNTAPEDSSPAKKT RRCQRQESKKMP VAGGKANKDRTEDKQDGMPGRSWASKRVSESVKALLLK GKAPVDPECTAK VGKAHVYCEGNDVYDVMLNQTNLQFNNNKYYLQLLEDDA QRNFSVWMRW GRVGKMGQHSLVACSGNLNKAKEIFQKKFLDKTKNNWE DREKFEKVPGKY DMLQMDYATNTQDEEETKKEESLKSPLKPESQLDLRVQE LIKLICNVQAM EEMMMEMKYNTKKAPLGKLTVAQIKAGYQSLKKIEDCIRA GQHGRALMEA CNEFYTRIPHDFGLRTPPLIRTQKELSEKIQLLEALGDIEIAIK LVKTEL QSPEHPLDQHYRNLHCALRPLDHESYEFKVISQYLQSTHA PTHSDYTMTL LDLFEVEKDGEKEAFREDLHNRMLLWHGSRMSNWVGILS HGLRIAPPEAP ITGYMFGKGIYFADMSSKSANYCFASRLKNTGLLLLSEVAL GQCNELLEA

NPKAEGLLQGKHSTKGLGKMAPSSAHFVTLNGSTVPLGP
ASDTGILNPDG
YTLNYNEYIVYNPNQVRMRYLLKVQFNFLQLW

Predicted molecular weight	92 kDa including tags
Amino acids	2 to 583
Tags	GST tag N-Terminus
Additional sequence information	NM_005484.

Specifications

Our **Abpromise guarantee** covers the use of **ab198766** 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

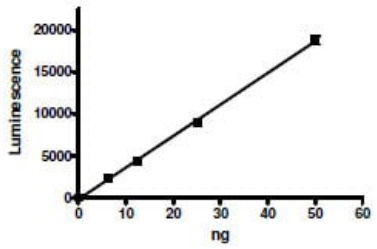
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.49% Glutathione, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

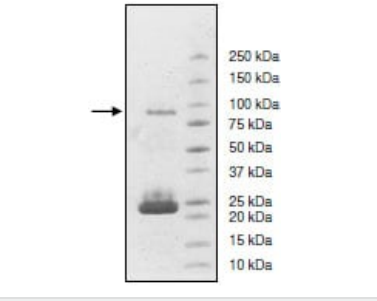
Function	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks.
Tissue specificity	Widely expressed, mainly in actively dividing tissues. The highest levels are in the brain, heart, pancreas, skeletal muscle and testis; also detected in kidney, liver, lung, placenta, ovary and spleen; levels are low in leukocytes, colon, small intestine, prostate and thymus.
Sequence similarities	Contains 1 PARP alpha-helical domain. Contains 1 PARP catalytic domain.
Post-translational modifications	Poly-ADP-ribosylated by PARP1.
Cellular localization	Nucleus.

Images



Functional Studies - Recombinant human PARP2 protein (ab198766)

Activity assay using ab198766.



SDS-PAGE - Recombinant human PARP2 protein (ab198766)

10% SDS-PAGE analysis of 2 µg ab198766 with Coomassie staining.

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