

Product datasheet

Anti-Cleaved PARP1 antibody [SP276] ab225715

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Cleaved PARP1 antibody [SP276]
Description	Rabbit monoclonal [SP276] to Cleaved PARP1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat ▲
Immunogen	Synthetic peptide within Human Cleaved PARP1 aa 200-300. The exact sequence is proprietary. (Surrounding Asp 214). Database link: P09874
Positive control	IHC-P: Human tonsil and bladder transitional cell carcinoma tissues. WB: NIH/3T3 cell lysate treated with staurosporine.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by Protein A/G.
Clonality	Monoclonal
Clone number	SP276
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab225715** in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary incubation for 10 minutes at room temperature.
WB		1/100. Predicted molecular weight: 113 kDa. Primary incubation for 1 hour at room temperature.

Target

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. Mediates the poly(ADP-ribosyl)ation of APLF and CHFR. Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. Required for PARP9 and DTX3L recruitment to DNA damage sites. PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites.

Sequence similarities

Contains 1 BRCT domain.
Contains 1 PARP alpha-helical domain.
Contains 1 PARP catalytic domain.
Contains 2 PARP-type zinc fingers.

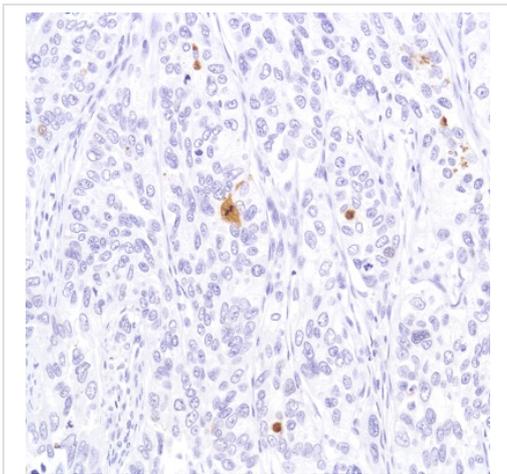
Post-translational modifications

Phosphorylated by PRKDC and TXK.
Poly-ADP-ribosylated by PARP2. Poly-ADP-ribosylation mediates the recruitment of CHD1L to DNA damage sites.
S-nitrosylated, leading to inhibit transcription regulation activity.

Cellular localization

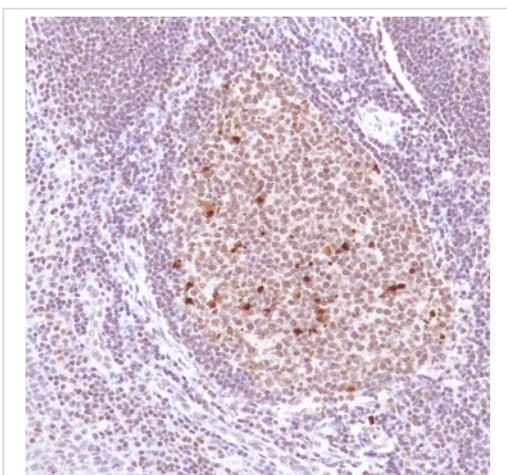
Nucleus. Nucleus, nucleolus. Localizes at sites of DNA damage.

Images



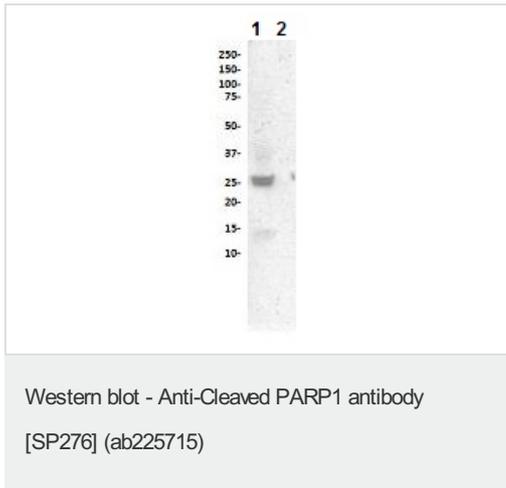
Formalin-fixed, paraffin-embedded human bladder transitional cell carcinoma tissue stained for Cleaved PARP1 using ab225715 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cleaved PARP1 antibody [SP276] (ab225715)



Formalin-fixed, paraffin-embedded human tonsil tissue stained for Cleaved PARP1 using ab225715 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cleaved PARP1 antibody [SP276] (ab225715)



All lanes : Anti-Cleaved PARP1 antibody [SP276] (ab225715) at 1/100 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate treated with staurosporine

Lane 2 : Untreated NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

Predicted band size: 113 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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