

Product datasheet

Anti-p73 (phospho Y99) antibody [EPR21751] ab218625

Recombinant RabMAb

4 Images

Overview

Product name	Anti-p73 (phospho Y99) antibody [EPR21751]
Description	Rabbit monoclonal [EPR21751] to p73 (phospho Y99)
Host species	Rabbit
Tested applications	Suitable for: Dot blot, WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human p73 aa 50-150 (phospho Y99). The exact sequence is proprietary. Database link: O15350
Positive control	WB: HT-1376 treated with 1 mM pervanadate for 30 minutes, whole cell lysate. IP: HT-1376 treated with 1 mM pervanadate for 30 minutes, whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p>

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21751
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab218625** 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
Dot blot		1/1000.
WB		1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 69 kDa).
IP		1/30.

Target

Function	Participates in the apoptotic response to DNA damage. Isoforms containing the transactivation domain are pro-apoptotic, isoforms lacking the domain are anti-apoptotic and block the function of p53 and transactivating p73 isoforms. May be a tumor suppressor protein.
Tissue specificity	Expressed in striatal neurons of patients with Huntington disease (at protein level). Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue.
Sequence similarities	Belongs to the p53 family. Contains 1 SAM (sterile alpha motif) domain.
Domain	Possesses an acidic transactivation domain, a central DNA binding domain and a C-terminal oligomerization domain that binds to the ABL tyrosine kinase SH3 domain.

The WW-binding motif mediates interaction with WWOX.

Post-translational modifications

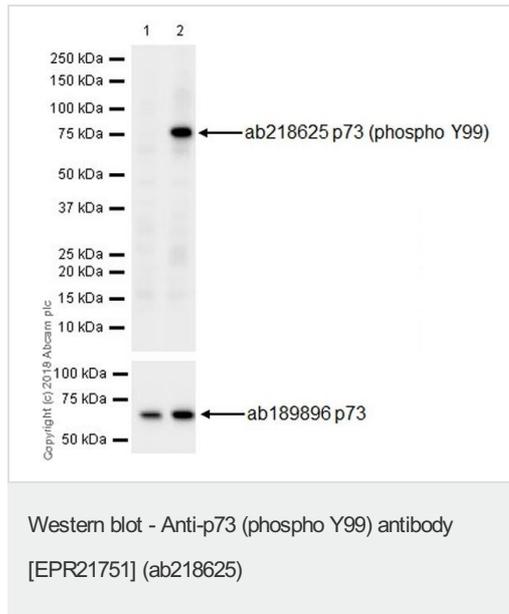
Isoform alpha (but not isoform beta) is sumoylated on Lys-627, which potentiates proteasomal degradation but does not affect transcriptional activity.

Higher levels of phosphorylation seen in the brain from patients with Huntington disease. Ubiquitinated; leading to its degradation by the proteasome.

Cellular localization

Nucleus. Accumulates in the nucleus in response to DNA damage.

Images



All lanes : Anti-p73 (phospho Y99) antibody [EPR21751] (ab218625) at 1/1000 dilution

Lane 1 : Untreated HT-1376 (human urinary bladder carcinoma cell line) whole cell lysate

Lane 2 : HT-1376 treated with 1 mM pervanadate for 30 minutes, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 69 kDa

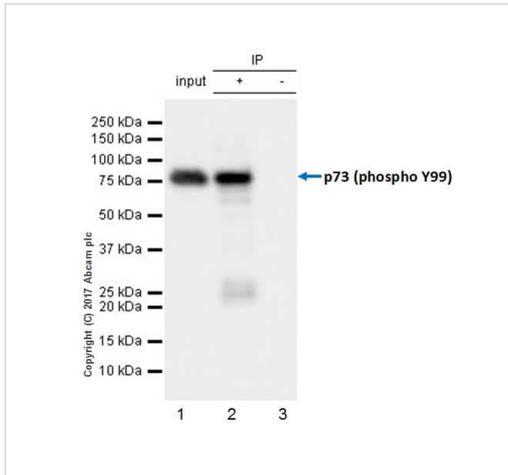
Observed band size: 80 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular mass observed is consistent with the literature (PMID:11466610).



Immunoprecipitation - Anti-p73 (phospho Y99) antibody [EPR21751] (ab218625)

p73 (phospho Y99) was immunoprecipitated from 0.35 mg of HT-1376 (human urinary bladder carcinoma cell line) treated with 1mM Pervanadate for 30 min whole cell lysate with ab218625 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab218625 at 1/2000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/10000 dilution.

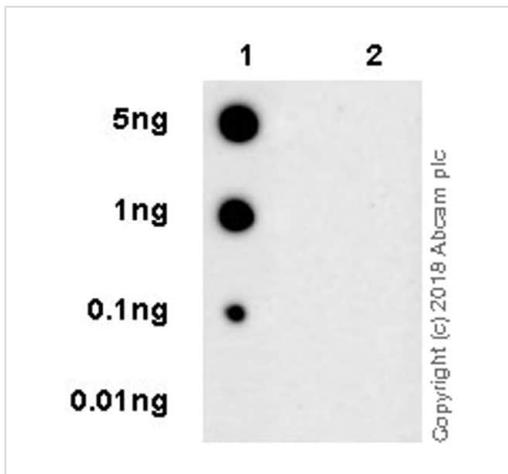
Lane 1: HT-1376 treated with 1mM Pervanadate for 30 min whole cell lysate 10 µg (input).

Lane 2: ab218625 IP in HT-1376 treated with 1mM Pervanadate for 30 min whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab218625 in HT-1376 treated with 1mM Pervanadate for 30 min whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 seconds.



Dot Blot - Anti-p73 (phospho Y99) antibody [EPR21751] (ab218625)

Dot blot analysis of p73 (phospho Y99) with ab218625 at 1/1000 dilution.

Lane 1: p73 (phospho Y99) peptide.

Lane 2: p73 non-phospho peptide.

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution was used as secondary antibody.

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-p73 (phospho Y99) antibody [EPR21751]
(ab218625)

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

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