abcam

Product datasheet

Anti-p73 antibody [EP436Y] ab40658

Recombinant RabMAb

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Overview

Product name	Anti-p73 antibody [EP436Y]
Description	Rabbit monoclonal [EP436Y] to p73
Host species	Rabbit
Tested applications	**Suitable for:** IHC-Fr, WB, ICC/IF, IHC-P, Flow Cyt **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide within Human p73 aa 50-150. The exact sequence is proprietary.
Positive control	WB: HeLa, Jurkat, HEK293 and NIH/3T3 cell lysates. IHC-P: Human urinary bladder carcinoma, human kidney, human liver carcinoma and mouse testis tissues. ICC/IF: HeLa cells.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. **We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.** This product is a recombinant rabbit monoclonal antibody.

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP436Y
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab40658** in the following tested applications.

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

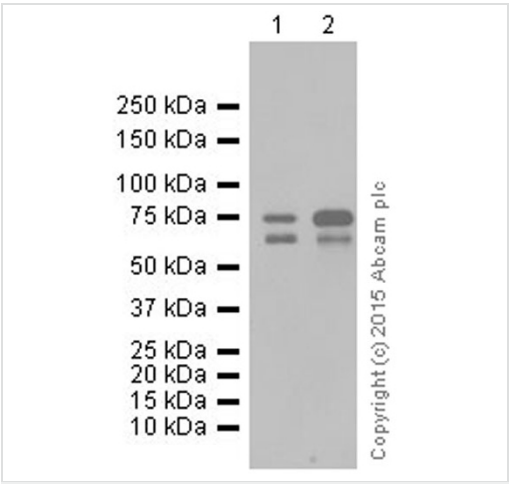
Application	Abreviews	Notes
IHC-Fr	★★★★☆	Use at an assay dependent concentration.
WB		1/500 - 1/2000. Detects a band of approximately 63 kDa (predicted molecular weight: 70 kDa).
ICC/IF		1/150 - 1/300.
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols.
Flow Cyt		Use at an assay dependent concentration.

Application notes	Is unsuitable for IP.

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



Western blot - Anti-p73 antibody [EP436Y] (ab40658)

All lanes : Anti-p73 antibody [EP436Y] (ab40658) at 1/5000 dilution (purified)

Lane 1 : HeLa whole cell lysate

Lane 2 : HEK293 whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

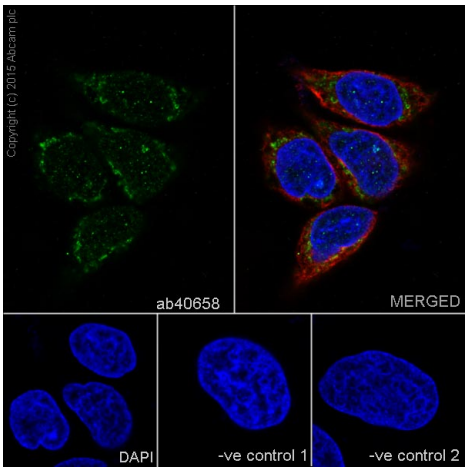
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 70 kDa

Observed band size: 60,75 kDa

why is the actual band size different from the predicted?

Blocking and dilution buffer: 5% NFDM/TBST.

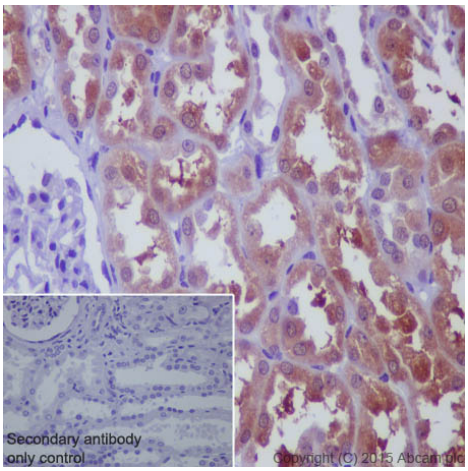


Immunocytochemistry/ Immunofluorescence - Anti-p73 antibody [EP436Y] (ab40658)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling p73 with purified ab40658 at a dilution of 1/300. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

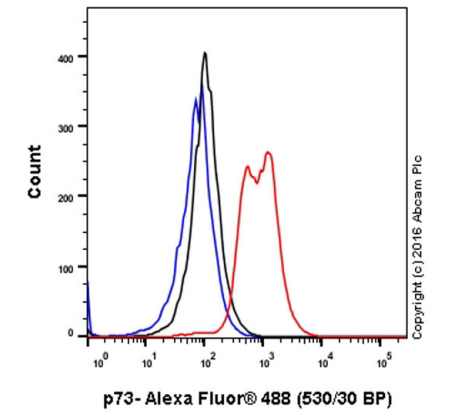
Control 1: primary antibody (1/300) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



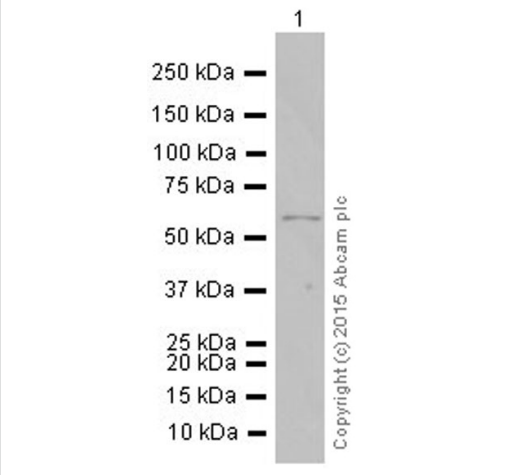
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p73 antibody [EP436Y] (ab40658)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling p73 with purified ab40658 at a dilution of 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Flow Cytometry - Anti-p73 antibody [EP436Y] (ab40658)

Flow Cytometry analysis of 293(human embryonic kidney) cells labeling p73 with purified ab40658 at 1/120 dilution(10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Western blot - Anti-p73 antibody [EP436Y] (ab40658)

Anti-p73 antibody [EP436Y] (ab40658) at 1/1000 dilution (purified) + NIH/3T3 whole cell lysate at 10 µg

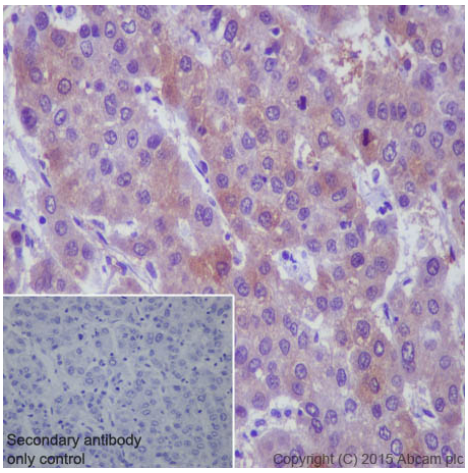
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 70 kDa

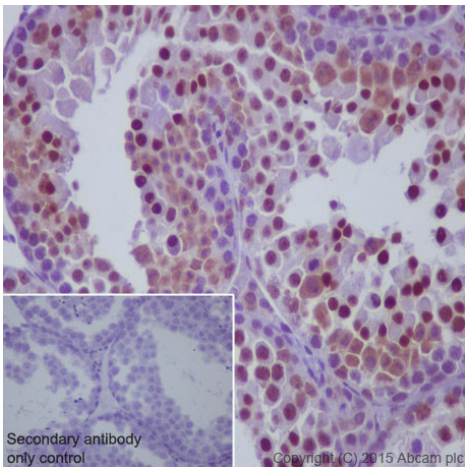
Observed band size: 60 kDa why is the actual band size different from the predicted?

Blocking and dilution buffer: 5% NFDM/TBST.



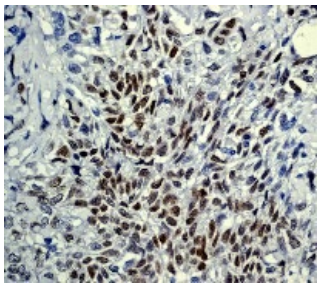
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p73 antibody [EP436Y] (ab40658)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver carcinoma tissue labelling p73 with purified ab40658 at a dilution of 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



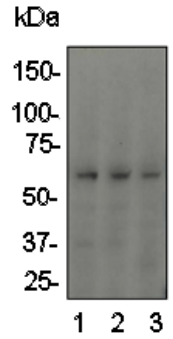
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p73 antibody [EP436Y] (ab40658)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse testis tissue labelling p73 with purified ab40658 at a dilution of 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p73 antibody [EP436Y] (ab40658)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human urinary bladder carcinoma tissue labelling p73 with unpurified ab40658 at a dilution of 1/100.



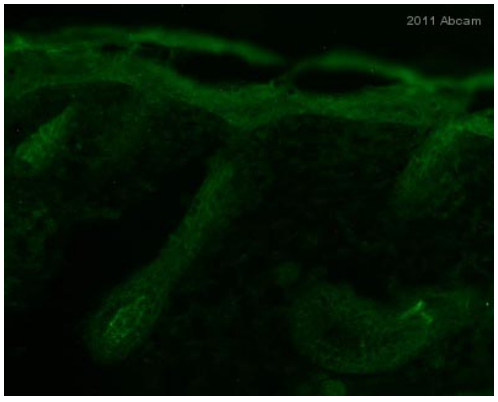
Western blot - Anti-p73 antibody [EP436Y] (ab40658)

All lanes : Anti-p73 antibody [EP436Y] (ab40658) at 1/2000 dilution (unpurified)

Lane 1 : HeLa cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 70 kDa
Observed band size: 63 kDa why is the actual band size different from the predicted?



Immunohistochemistry (Frozen sections) - Anti-p73 antibody [EP436Y] (ab40658)
Image courtesy of an anonymous Abreview.

Unpurified ab40658 staining p73 in murine hairy skin tissue by Immunohistochemistry (Frozen sections). Tissue was fixed with paraformaldehyde, permeabilized using 0.1% Triton then blocked using 5% BSA for 30 minutes at 25°C. Samples were then incubated with ab40658 at a 1/100 dilution for 16 hours at 25°C. The secondary used was an Alexa Fluor® 488 conjugated goat anti-rabbit polyclonal used at a 1/1000 dilution.

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