


Product datasheet

Anti-p73 antibody ab137797

[4 References](#) [3 Images](#)

Overview

Product name	Anti-p73 antibody
Description	Rabbit polyclonal to p73
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 11-407 of Human p73 (Uniprot ID: O15350).
Positive control	Jurkat, 293T, A431 and Raji whole cell lysates; HeLa cells; Human Cal27 xenograft tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137797 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
WB		1/500 - 1/3000. Predicted molecular weight: 69 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

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.

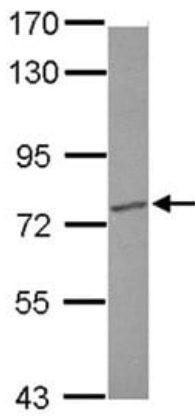
Post-translational modifications

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.

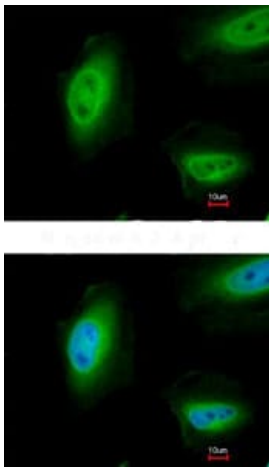
Images



Western blot - Anti-p73 antibody (ab137797)

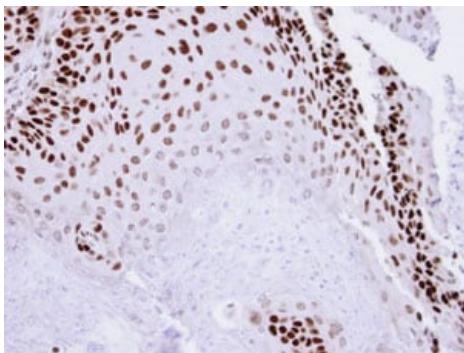
Anti-p73 antibody (ab137797) at 1/1000 dilution + Jurkat whole cell lysate at 30 μ g

Predicted band size: 69 kDa



Immunocytochemistry/ Immunofluorescence - Anti-p73 antibody (ab137797)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells labelling p73 with ab137797 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p73 antibody (ab137797)

Immunohistochemical analysis of paraffin-embedded Human Cal27 xenograft tissue labelling p73 with ab137797 at 1/100 dilution.

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

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- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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