Product datasheet

Anti-p73 antibody ab137797

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.

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, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

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.

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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

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

Predicted band size: 69 kDa
Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells labelling p73 with ab137797 at 1/100 dilution.

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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