Datasheet for ABIN967629

anti-Tumor Protein p73 antibody (AA 380-367)

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Overview

Quantity:	0.1 mg
Target:	Tumor Protein p73 (TP73)
Binding Specificity:	AA 380-367
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Tumor Protein p73 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human p73alpha aa.380-367
Clone:	GC-15
Isotype:	IgG1 kappa
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Tumor Protein p73 (TP73)
Alternative Name:	p73 (TP73 Products)
Background:	P53 is a tumor suppressor which acts as an S-phase checkpoint for DNA damage. The gene for p53 is the most commonly mutated gene identified in human cancers. Recently, a new member of the p53 family, p73, was identified. p73 is structurally homologous to p53 in several regions, including the p53 N-terminal transactivation domain and C-terminal oligomerization domains, as well as the region corresponding to the p53 DNA-binding domain. When overexpressed, p73 can promote p53-like functions, including induction of apoptosis and induction of transcription from p53-responsive promoters such as p21. Despite structural and apparent functional homology, data suggests that these proteins may have distinct functions as well. For example, viral oncoproteins such as Adenovirus E1B 55K and HPV E6, which bind to and thus inactivate p53 during the process of transformation, do not bind to p73. In addition, unlike p53, p73 expression is not induced by DNA damage, e.g. UV irradiation. Several p73 splice variants have been identified, including alpha (full-length), beta (missing exon 13), gamma (missing exon 11) and delta (missing exons 11, 12 and 13). Two hybrid analysis has shown variable interaction(s) between these isoforms in vitro. Many types of normal, tumor and virally-transformed cell lines express detectable levels of p73, however, the relative expression of p73 isoforms, as well as their functional activity, appears to be differentially regulated in various cell types. p73alpha and beta isoforms migrate at molecular weights of approximately 80 kDa (alpha) and 70 kDa (beta), respectively. The GC-15 antibody reacts with human p73alpha and beta. A fusion protein containing amino acids 380-367 of human p73alpha was used as immunogen.
Molecular Weight:	70 kDa
Pathways:	Regulation of Cell Size, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	293 human embryonic kidney (ATCC CRL-1573) is recommended as a positive control.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4° C.

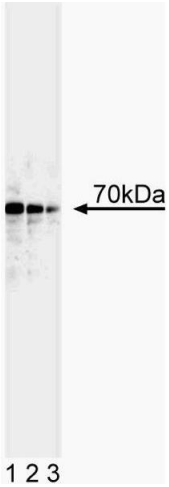
Publications

Product cited in:

Mohan, Mohan, Wilson: "Discoidin domain receptor (DDR) 1 and 2: collagen-activated tyrosine kinase receptors in the cornea." in: **Experimental eye research**, Vol. 72, Issue 1, pp. 87-92, (2001) (PubMed).

Foehr, Tatavos, Tanabe, Raffioni, Goetz, Dimarco, De Luca, Bradshaw: "Discoidin domain receptor 1 (DDR1) signaling in PC12 cells: activation of juxtamembrane domains in PDGFR/DDR/TrkA chimeric receptors." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 14, Issue 7, pp. 973-81, (2000) (PubMed).

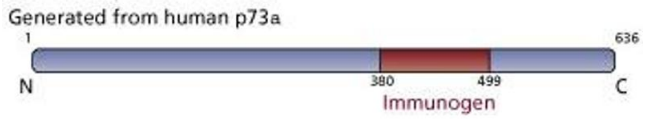
Images



Western Blotting

Image 1. Western blot analysis of p73. Lysate from 293 cells was probed with anti-p73 (clone GC-15) at concentrations of 1.0 (lane 1), 0.5, (lane 2), and 0.25 myg/ml (lane 3). p73 is identified at ~70 kDa.

Image 2.



Western Blotting

Image 3.