

Datasheet for 200-301-I01**p73 Antibody****Overview**

Description:	Anti-p73 (MOUSE) Monoclonal Antibody - 200-301-I01
Item No.:	200-301-I01
Size:	100 µg
Applications:	ChIP, IF, IHC, IP, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background: Anti-p73 antibody detects human p73. p73 was identified as a long-lost cousin of tumor suppressor protein, p53. p73 has high homology with p53 as well as with p63, a gene implicated in the maintenance of epithelial stem cells. Significant homology between p53, p63, and p73 (approximately 63% amino acid identity in the DNA-binding domain suggest that they may have overlapping functions in the regulation of gene expression. The targeted disruption of p73 gene leads to defects hippocampal dysgenesis, hydrocephalus, chronic inflammation and infections. Recently, splicing variant mRNAs of p73 has been identified in MCF-7, a breast carcinoma cell line. These mRNAs code for variant p73 proteins bearing distinct carboxy-terminal structures suggesting that the carboxy-terminal region of p73 may be important for the functions of this protein. Tumor BioMarker found p73 to be upregulated in a significant fraction of anaplastic thyroid cancers, whereas it was not detectable in normal thyroid epithelial cells nor in papillary or follicular thyroid cancer. Anti-p73 antibody is ideal for investigators involved in cell cycle protein research.

Synonyms:	P73, Tumor protein p73, p53-like transcription factor, p53-related protein
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5B1288
Format:	IgG1

Target Details

Gene Name:	TP73
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Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	p73 Antibody was produced in mice prepared by repeated immunizations with full-length human p73 protein.
Purity/Specificity:	Anti-p73 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-p73 from Human and Mouse based on 100% homology with the immunizing sequence. It reacts with alpha, beta, gamma and delta isoforms of mouse and human p73 as well as the dominant negative p73. Because of its reactivity pattern it may be regarded as anti-pan p73. The antibody does not cross react with p53. Cross-reactivity with Anti-p73 from other sources has not been determined.
Relevant Links:	• UniProtKB - O15350 • NCBI - NP_001119712.1 • GeneID - 7161

Application Details

Tested Applications:	ChIP, IF, IHC, IP, WB
Application Note:	Anti-p73 Antibody is tested for use in WB, ChIP, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 70kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-3 µg/mL

Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

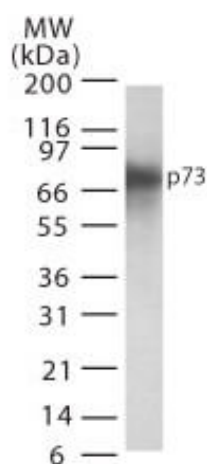
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

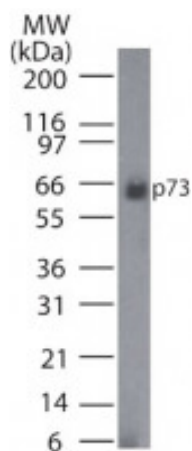
Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Mouse Anti-p73 antibody. Lane A: p-73 in transfected cell lysate. Primary antibody: p-73 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for p73. Other band(s): none.



Western Blot

Western Blot of Mouse Anti-p73 antibody. Lane A: p-73 in HeLa cell lysate. Primary antibody: p-73 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for p73. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.