

## Mouse Anti-Human p53 monoclonal antibody, clone JID164 (CABT-L2805)

This product is for research use only and is not intended for diagnostic use.

## **PRODUCT INFORMATION**

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human p53
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID164
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Colon Carcinoma
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

45-1 Ramsey Road, Shirley, NY 11967, USA

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Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

## BACKGROUND

Introduction	p53, also known as tumor protein 53 or TP53, is a tumor suppressor and transcription factor that functions in a number of anti-cancer activities including DNA repair, cell-cycle arrest, and apoptosis in response to DNA damage or other stressors. Mutations in p53 are linked to a number of malignant tumors, including those of the breast, ovarian, bladder, colon, lung, and melanoma. Anti-p53 staining has been used to detect intratubular germ cell neoplasia, and also to distinguish between uterine serous carcinoma and endometrioid carcinoma.
Keywords	TP53;tumor protein p53;P53;BCC7;LFS1;TRP53;cellular tumor antigen p53;antigen NY-CO- 13;tumor protein 53;phosphoprotein p53;p53 tumor suppressor;mutant tumor protein 53;transformation-related protein 53;

## **GENE INFORMATION**

Gene Name	TP53 tumor protein p53 [ Homo sapiens (human) ]
Official Symbol	TP53
Synonyms	TP53; tumor protein p53; P53; BCC7; LFS1; TRP53; cellular tumor antigen p53; antigen NY-CO-13; tumor protein 53; phosphoprotein p53; p53 tumor suppressor; mutant tumor protein 53; transformation-related protein 53;
Entrez Gene ID	7157
Protein Refseq	NP_000537
UniProt ID	K7PPA8
Chromosome Location	17p13.1
Pathway	AMPK signaling; Activation of BH3-only proteins; Activation of NOXA and translocation to mitochondria; Activation of PUMA and translocation to mitochondria; Alzheimers Disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Aurora A signaling;
Function	ATP binding; DNA binding; MDM2/MDM4 family protein binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II core promoter sequence-specific DNA binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription

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regulatory region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chaperone binding; chromatin binding; copper ion binding; core promoter sequence-specific DNA binding; damaged DNA binding; enzyme binding; histone acetyltransferase binding; histone deacetylase regulator activity; identical protein binding; p53 binding; protease binding; protein N-terminus binding; protein binding; protein heterodimerization activity; protein kinase binding; protein phosphatase 2A binding; protein phosphatase binding; receptor tyrosine kinase binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding; ubiquitin protein ligase binding; zinc ion binding;