



# Anti-TP53 monoclonal antibody, clone 0E4EF4 (DCABH-4289)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to p53
<b>Antigen Description</b>	Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. Implicated in Notch signaling cross-over. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis.
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 1-24 of Human p53
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	0E4EF4
<b>Purification</b>	Near homogeneity as judged by SDS-PAGE. This antibody was produced in vitro using hybridomas grown in serum-free medium, and then concentrated by ammonium sulfate precipitation.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IP, Flow Cyt, ICC, In-Cell ELISA

<b>Positive Control</b>	p53 protein, Hek293 whole cell lysate, MCF7 cells camptothecin-treated.
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Preservative: 0.02% Sodium azide; Constituents: 0.36% HEPES, 0.88% Sodium chloride
<b>Storage</b>	Store at 4°C or at -20°C for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TP53 tumor protein p53 [ Homo sapiens ]</a>
<b>Official Symbol</b>	TP53
<b>Synonyms</b>	TP53; tumor protein p53; cellular tumor antigen p53; LFS1; Li Fraumeni syndrome; p53; antigen NY-CO-13; mutant p53 protein; phosphoprotein p53; p53 tumor suppressor; truncated p53 protein; tumor suppressor TP53; transformation-related protein 53; P53; TRP
<b>Entrez Gene ID</b>	<a href="#">7157</a>
<b>Protein Refseq</b>	<a href="#">NP_000537</a>
<b>UniProt ID</b>	<a href="#">K7PPA8</a>
<b>Chromosome Location</b>	17p13.1
<b>Pathway</b>	Activation of BH3-only proteins, organism-specific biosystem; Activation of NOXA and translocation to mitochondria, organism-specific biosystem; Activation of PUMA and translocation to mitochondria, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem;
<b>Function</b>	ATP binding; DNA binding; DNA strand annealing activity; MDM2 binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcri