

**#14620** Store at -20°C

## p73 (D3G10) Rabbit mAb


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<b>Applications:</b> WB, IP, IF-IC	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O15350	<b>Entrez-Gene Id:</b> 7161
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:200  
1:200 - 1:400

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

### Specificity / Sensitivity

p73 (D3G10) Rabbit mAb recognizes endogenous levels of total p73 protein. Based on the amino acid sequence of the immunogenic peptide, the antibody is expected to recognize all p73 isoforms.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala80 of human p73 protein.

### Background

The p53 family member, p73, exists in multiple isoforms/splice variants and can induce apoptosis and cell cycle arrest in response to DNA damage via its activity as a transcription regulator (1-3). Upon DNA damage, p73 is phosphorylated at Tyr99 by c-Abl, causing translocation to the nuclear matrix (4). DNA damage-induced acetylation of p73 at Lys321 by the acetyltransferase p300 has also been reported to enhance transcription of genes including that of p53AIP1 (5). Another report, however, indicates that p300 does not acetylate full-length p73 *in vivo* (6).

### Background References

1. Kaghad, M. et al. (1997) *Cell* 90, 809-19.
2. Jost, C.A. et al. (1997) *Nature* 389, 191-4.
3. De Laurenzi, V.D. et al. (1999) *Cell Death Differ* 6, 389-90.
4. Ben-Yehoyada, M. et al. (2003) *J Biol Chem* 278, 34475-82.
5. Costanzo, A. et al. (2002) *Mol Cell* 9, 175-86.
6. Zeng, X. et al. (2001) *J Biol Chem* 276, 48-52.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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