

Store at  
-20C  
#39692**p63 (D9L7L) XP<sup>®</sup> Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-P, IF-IC	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 75	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9H3D4	<b>Entrez-Gene Id:</b> 8626
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:50  
1:450 - 1:1800  
1:400 - 1:1600

**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.

For a carrier-free (BSA and azide free) version of this product see product #64471.

**Specificity/Sensitivity**

p63 (D9L7L) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total p63. Based on the sequence of the immunogenic peptide, this antibody is expected to recognize both full length (TA) p63 as well as DeltaN p63 isoforms that contain exon 4, such as alpha, beta, and gamma. This antibody will not detect DeltaNp73L (Q9H3D4-10/NM\_001329146.1).

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn118 of human p63 protein.

**Background**

The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of p53 can lead to either cell cycle arrest and DNA repair or apoptosis (1). In addition to p53, mammalian cells contain two p53 family members, p63 and p73, which are similar to p53 in both structure and function (2). While p63 can induce p53-responsive genes and apoptosis, mutation of p63 rarely results in tumors (2). Research investigators frequently observe amplification of the *p63* gene in squamous cell carcinomas of the lung, head, and neck (2,3). The *p63* gene contains an alternative transcription initiation site that yields a truncated ΔNp63 lacking the transactivation domain, and alternative splicing at the carboxy terminus yields the α, β, and γ isoforms (3,4).

**Background References**

1. Levine, A.J. (1997) *Cell* 88, 323-31.
2. Waltermann, A. et al. (2003) *Oncogene* 22, 5686-93.
3. Hibi, K. et al. (2000) *Proc Natl Acad Sci U S A* 97, 5462-7.
4. Yang, A. et al. (1999) *Nature* 398, 714-8.

**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**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human

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