

Store at
-20C
#67825**DeltaN p63 (E6Q30) Rabbit mAb**

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

Applications: W, IP, IF-IC, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 60, 75, 95	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H3D4-2	Entrez-Gene Id: 8626
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Product Usage Information

For optimal ChIP results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 × 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Chromatin IP

Dilution

1:1000
1:100
1:800 - 1:1600
1:100

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

DeltaN p63 (E6Q30) Rabbit mAb recognizes endogenous levels of total DeltaN p63-alpha protein. This antibody is expected to recognize all DeltaN p63 isoforms. This antibody does not detect full length (TA) p63.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala8 of human DeltaN 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) <cite>Cell</cite> 88, 323-31.
2. Waltermann, A. et al. (2003) <cite>Oncogene</cite> 22, 5686-93.
3. Hibi, K. et al. (2000) <cite>Proc Natl Acad Sci U S A</cite> 97, 5462-7.
4. Yang, A. et al. (1999) <cite>Nature</cite> 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 **IF-IC:** Immunofluorescence (Immunocytochemistry)
ChIP: Chromatin IP

Cross-Reactivity Key

H: Human

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