

p63- α (D2K8X) XP[®] Rabbit mAb

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

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

For optimal ChIP and ChIP-seq results, use 5 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)
Chromatin IP
Chromatin IP-seq

Dilution

1:1000
1:100
1:400 - 1:1600
1:800 - 1:3200
1:100
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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 #49248.

Specificity/Sensitivity

p63- α (D2K8X) XP[®] Rabbit mAb recognizes endogenous levels of total p63- α protein. This antibody will detect both the full-length isoform (TAp63- α) and the truncated δ Np63- α isoform, but will not recognize the p63- β or p63- γ isoform.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human p63- α 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 Δ Np63 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 **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

Cross-Reactivity Key

H: Human

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