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p63 Rabbit mAb

Catalog No.: A28248

Recombinant

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Basic Information

Observed MW
75 kDa

Calculated MW
45-77 kDa

Category
Monoclonal Antibodies

Applications
WB, IHC-P, mIHC, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC68640

Background

This gene encodes a member of the p53 family of transcription factors. The functional domains of p53 family proteins include an N-terminal transactivation domain, a central DNA-binding domain and an oligomerization domain. Alternative splicing of this gene and the use of alternative promoters results in multiple transcript variants encoding different isoforms that vary in their functional properties. These isoforms function during skin development and maintenance, adult stem/progenitor cell regulation, heart development and premature aging. Some isoforms have been found to protect the germline by eliminating oocytes or testicular germ cells that have suffered DNA damage. Mutations in this gene are associated with ectodermal dysplasia, and cleft lip/palate syndrome 3 (EEC3); split-hand /foot malformation 4 (SHFM4); ankyloblepharon-ectodermal defects-cleft lip /palate; ADULT syndrome (acro-dermato-ungual-lacrimal-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8.

Recommended Dilutions

WB	1:4000 - 1:10000
IHC-P	1:2000 - 1:8000
mIHC	1:4000 - 1:16000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8626

Swiss-Prot
Q9H3D4

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
AIS; KET; LMS; NBP; RHS; p40; p51; p63; EEC3; OFC8; p73H; p73L; SHFM4; TP53L; TP73L; p53CP; TP53CP; B(p51A); B(p51B)

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

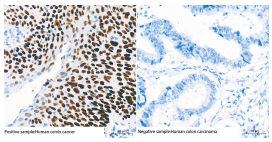
Source
Rabbit

Isotype
IgG

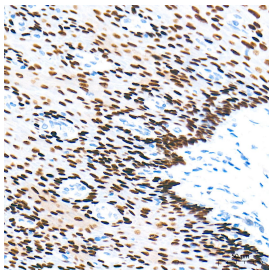
Purity
Affinity purification

Storage
Store at -20℃

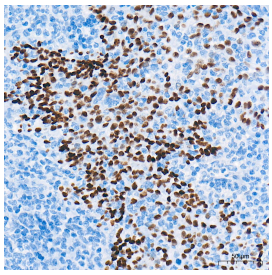
Validation Data



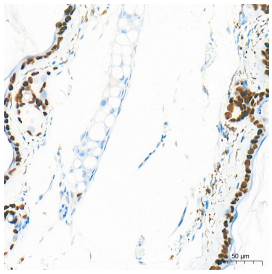
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer (left) (positive) and Human colon carcinoma (right) (negative) tissue using p63 Rabbit mAb (A28248) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



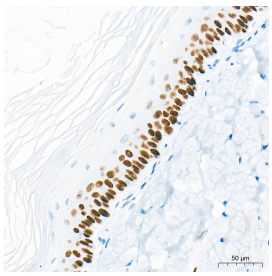
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using p63 Rabbit mAb (A28248) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



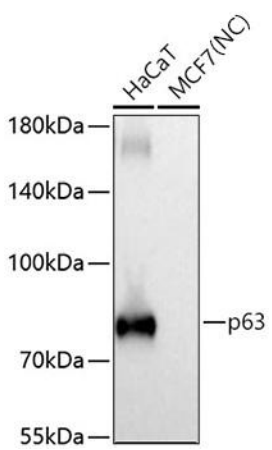
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using p63 Rabbit mAb (A28248) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse skin tissue using p63 Rabbit mAb (A28248) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

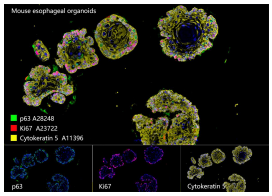


Immunohistochemistry analysis of paraffin-embedded Rat skin tissue using p63 Rabbit mAb (A28248) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Western blot analysis of various lysates using p63 Rabbit mAb (A28248) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): MCF7.
Exposure time: 60 s.

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The multiplex IHC analysis on paraffin-embedded Mouse esophageal organoids tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : p63 Rabbit mAb (A28248, 1:8000) with TSA-TYR-520 (Green), and Ki67 Rabbit mAb (A23722, 1:1000) with TSA-TYR-570 (Red), and Cytokeratin 5 Rabbit mAb (A11396, 1:8000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.