

Anti-p63 Antibody

Catalog # ABO11364

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q9H3D4
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Tumor protein 63(TP63) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8626
Other Names	Tumor protein 63, p63, Chronic ulcerative stomatitis protein, CUSP, Keratinocyte transcription factor KET, Transformation-related protein 63, TP63, Tumor protein p73-like, p73L, p40, p51, TP63, KET, P63, P73H, P73L, TP73L
Calculated MW	76785
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Nucleus .
Tissue Specificity	Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues. .
Source	Eukaryota
Protein Name	Tumor protein 63
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human

p63(664-680aa DMDARRNKQQRIKEEGE), different from the related rat and mouse sequences by one amino acid.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the p53 family.

Protein Information

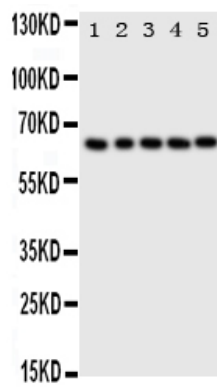
Name	TP63
Synonyms	KET, P63, P73H, P73L, TP73L
Function	Acts as a sequence specific DNA binding transcriptional activator or repressor. The isoforms contain a varying set of transactivation and auto-regulating transactivation inhibiting domains thus showing an isoform specific activity. Isoform 2 activates RIPK4 transcription. May be required in conjunction with TP73/p73 for initiation of p53/TP53 dependent apoptosis in response to genotoxic insults and the presence of activated oncogenes. Involved in Notch signaling by probably inducing JAG1 and JAG2. Plays a role in the regulation of epithelial morphogenesis. The ratio of DeltaN-type and TA*-type isoforms may govern the maintenance of epithelial stem cell compartments and regulate the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Required for limb formation from the apical ectodermal ridge. Activates transcription of the p21 promoter. Binds to an upstream regulatory region of the DSG1 gene and promotes transcription (PubMed: 24594668).
Cellular Location	Nucleus
Tissue Location	Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues

Background

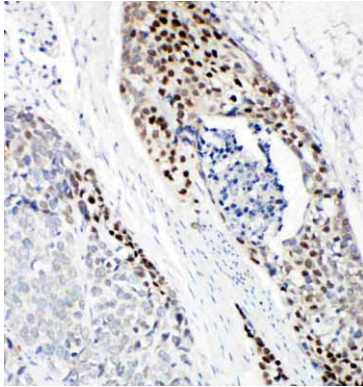
TP63(Tumor Protein p63), also known as KET, is a protein that in humans is encoded by the TP63 gene. Yang et al.(1998) described the cloning of tumor protein p63, which shows strong homology to the tumor suppressor p53 and the p53-related protein p73. By fluorescence in situ hybridization, Yang et al.(1998) localized the human TP63 gene to chromosome 3q27-q29. Hibi et al.(2000) stated that p53 homologs known variously as p40, p51, p63, and p73L(Trink et al., 1998, Yang et al., 1998, Osada et al., 1998, Senoo et al., 1998) are isoforms of the same gene, which Hibi et al.(2000) referred to as AIS for amplified in squamous cell carcinoma.

Images

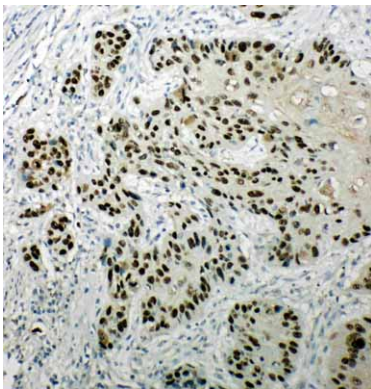
Anti-p63 antibody, ABO11364, Western blottingLane 1:
HELA Cell LysateLane 2: SMMC Cell LysateLane 3:



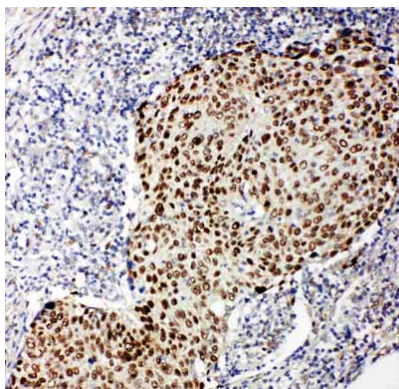
COLO320 Cell Lysate Lane 4: A549 Cell Lysate Lane 5: SGC Cell Lysate



Anti-p63 antibody, ABO11364, IHC(P) IHC(P): Human Esophageal Squamous Cell Carcinoma Tissue

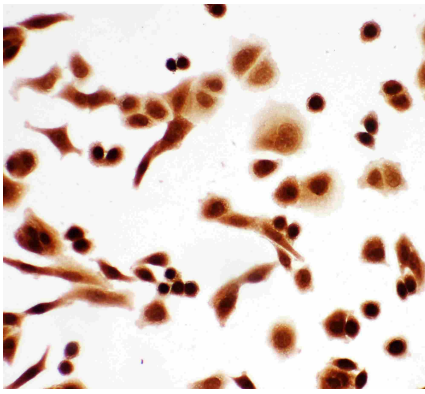


Anti-p63 antibody, ABO11364, IHC(P) IHC(P): Human Esophageal Squamous Cell Carcinoma Tissue



Anti-p63 antibody, ABO11364, IHC(P) IHC(P): Human Lung Cancer Tissue

Anti-p63 antibody, ABO11364, ICCICC: A549 Cell



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