

p63 (Phospho Ser455) Rabbit pAb

CatalogNo: YP0699 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 70kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human p63 around the phosphorylation site of Ser455. AA range:421-470

Specificity

Phospho-p63 (S455) Polyclonal Antibody detects endogenous levels of p63 protein only when phosphorylated at S455. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):IQsPS

| Target Information

Gene name TP63

Protein Name Tumor protein 63

Organism	Gene ID	UniProt ID
Human	8626;	Q9H3D4;
Mouse		O88898;

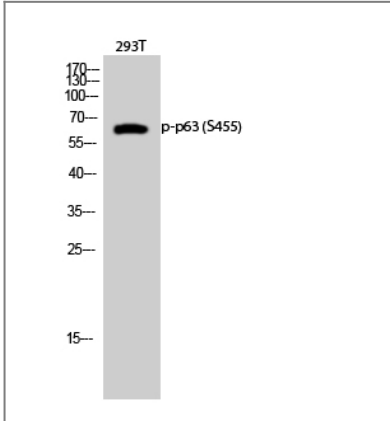
Cellular Localization Nucleus .

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.

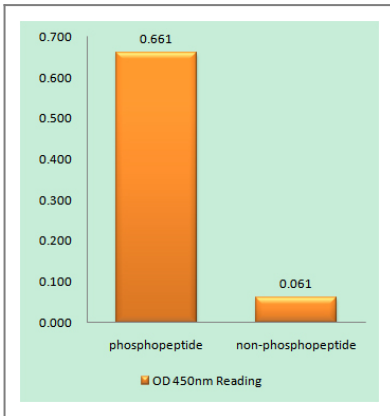
Function

cofactor: Binds 1 zinc ion per subunit. ,Disease: Defects in TP63 are a cause of cervical , colon , head and neck , lung and ovarian cancers. ,Disease: Defects in TP63 are a cause of ectodermal dysplasia Rapp-Hodgkin type (EDRH) [MIM:129400]; also called Rapp-Hodgkin syndrome or anhidrotic ectodermal dysplasia with cleft lip/palate. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. EDRH is characterized by the combination of anhidrotic ectodermal dysplasia , cleft lip , and cleft palate. The clinical syndrome is comprised of a characteristic facies (narrow nose and small mouth) , wiry , slow-growing , and uncombable hair , sparse eyelashes and eyebrows , obstructed lacrimal puncta/epiphora , bilateral stenosis of external auditory canals , microsomia , hypodontia , cone-shaped incisors , enamel hypoplasia , dystrophic nails , and cleft lip/cleft palate. ,Disease: Defects in TP63 are the cause of acro-dermato-ungual-lacrimal-tooth syndrome (ADULT syndrome) [MIM:103285]; a form of ectodermal dysplasia. Ectodermal dysplasias (EDs) constitute a heterogeneous group of developmental disorders affecting tissues of ectodermal origin. EDs are characterized by abnormal development of two or more ectodermal structures such as hair , teeth , nails and sweat glands , with or without any additional clinical sign. Each combination of clinical features represents a different type of ectodermal dysplasia. ADULT syndrome involves ectrodactyly , syndactyly , finger- and toenail dysplasia , hypoplastic breasts and nipples , intensive freckling , lacrimal duct atresia , frontal alopecia , primary hypodontia , and loss of permanent teeth. ADULT differs significantly from EEC3 syndrome by the absence of facial clefting. ,Disease: Defects in TP63 are the cause of ankyloblepharon-ectodermal defects-cleft lip/palate (AEC) [MIM:106260]. AEC is an autosomal dominant condition characterized by congenital ectodermal dysplasia with coarse , wiry , sparse hair , dystrophic nails , slight hypohidrosis , scalp infections , ankyloblepharon filiforme adnatum , maxillary hypoplasia , hypodontia and cleft lip/palate. ,Disease: Defects in TP63 are the cause of ectrodactyly-ectodermal dysplasia-cleft lip/palate syndrome type 3 (EEC3) [MIM:604292]. EEC3 is an autosomal dominant syndrome characterized by ectrodactyly of hands and feet , ectodermal dysplasia and facial clefting. ,Disease: Defects in TP63 are the cause of limb-mammary syndrome (LMS) [MIM:603543]. LMS is characterized by ectrodactyly , cleft palate and mammary-gland abnormalities. ,Disease: Defects in TP63 are the cause of non-syndromic orofacial cleft type 8 (OFC8) [MIM:129400]. Non-syndromic orofacial cleft is a common birth defect consisting of cleft lips with or without cleft palate. Cleft lips are associated with cleft palate in two-third of cases. A cleft lip can occur on one or both sides and range in severity from a simple notch in the upper lip to a complete opening in the lip extending into the floor of the nostril and involving the upper gum. ,Disease: Defects in TP63 are the cause of split-hand/foot malformation 4 (SHFM4) [MIM:605289]. Split-hand/split-foot malformation is a limb malformation involving the central rays of the autopod and presenting with syndactyly , median clefts of the hands and feet , and aplasia and/or hypoplasia of the phalanges , metacarpals , and metatarsals. There is restricted overlap between the mutational spectra of EEC3 and SHFM4. ,Domain: The transactivation inhibitory domain (TID) can interact with , and inhibit the activity of the N-terminal transcriptional activation domain of TA*-type isoforms. ,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. May be required in conjunction with TP73/p73 for initiation of TP53/p53 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. ,PTM: May be sumoylated. ,similarity: Belongs to the p53 family. ,similarity: Contains 1 SAM (sterile alpha motif) domain. ,subunit: Binds DNA as a homotetramer. Isoform composition of the tetramer may determine transactivation activity. Isoforms Alpha and Gamma interact with HIPK2. Interacts with SSRP1 , leading to stimulate coactivator activity. ,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. ,

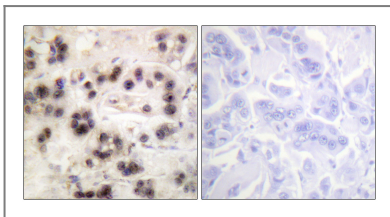
Validation Data



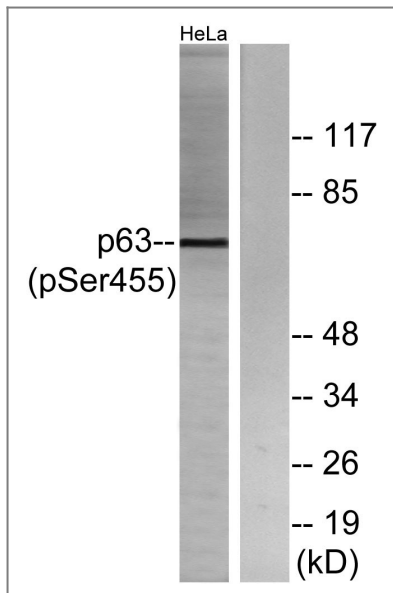
Western Blot analysis of 293T cells using Phospho-p63 (S455) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p63 (Phospho-Ser455) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p63 (Phospho-Ser455) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with TNF 2500U/ML 30', using p63 (Phospho-Ser455) Antibody. The lane on the right is blocked with the phospho peptide.

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p63 (Phospho Ser455) Rabbit pAb

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