

# Product Datasheet

## p63/TP73L Antibody (4A4)

### NB100-691

Unit Size: 0.5 ml

Store at 4C. Do not freeze.

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**NB100-691**

p63/TP73L Antibody (4A4)

<b>Product Information</b>	
<b>Unit Size</b>	0.5 ml
<b>Concentration</b>	2.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4A4
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS with albumin and small amount of non - ionic detergent
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	8626
<b>Gene Symbol</b>	TP63
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Cross-reacts with Human. Mouse reactivity reported in scientific literature (PMID: 25988972)
<b>Specificity/Sensitivity</b>	By immunoblotting, 3 bands are visible at approx. 50, 60, and 70 kDa using HaCaT cells, and multiple bands of approx. 44, 60, 80, and 90-95 kDa in other preparations.
<b>Immunogen</b>	Recombinant full length protein, corresponding to amino acids 1-205 of human p63.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin 1:50-1:75
<b>Application Notes</b>	Optimal dilutions / concentrations should be determined by the end user. By Western blot, this antibody detects a band of 63 kDa, which corresponds to the predicted molecular weight of p63. No special pretreatment is required for the immunohistochemical staining of formalin/paraffin tissues. Use in Western blot reported in scientific literature (PMID 25988972)



## Publications

Holliday H, Roden DL, Junankar S et al. ID4 represses myoepithelial differentiation of mammary stem cells through its interaction with HEB *iScience* 2021-02-08 [PMID: 33554073]

Hastings JF, Gonzalez Rajal A, Latham SL et al. Analysis of pulsed cisplatin signalling dynamics identifies effectors of resistance in lung adenocarcinoma *Elife* 2020-06-09 [PMID: 32513387] (WB, Human)

Hastings JF, Gonzalez-Rajal A, Han JZR, McCloy RA Dynamic analysis of pulsed cisplatin identifies effectors of resistance in lung adenocarcinoma *bioRxiv*

Kuramochi Mizuki, Izawa Takeshi, Nishimura Shin et al. Pleomorphic adenoma of the labial gland, characterized by reticular pattern of myoepithelial cells in a dog. *The Journal of Veterinary Medical Science* 2017-06-07 [PMID: 28529274] (IF/IHC, Canine)

Jakobsson L, Chebil G, Marzouka NA et al. Low Frequency of Intratumor Heterogeneity in Bladder Cancer Tissue Microarrays *Bladder Cancer* 2018-07-30 [PMID: 30112444] (IF/IHC, Human)

Sjodahl G. Molecular Subtype Profiling of Urothelial Carcinoma Using a Subtype-Specific Immunohistochemistry Panel Methods *Mol. Biol.* 2017-09-10 [PMID: 28889377] (IF/IHC)

Rinaldi VD, Bolcun-Filas E, Kogo H et al. The DNA Damage Checkpoint Eliminates Mouse Oocytes with Chromosome Synapsis Failure *Mol. Cell* 2017-08-16 [PMID: 28844861] (Mouse)

Haffner MC, Weier C, Xu M et al. Molecular evidence that invasive adenocarcinoma can mimic prostatic intraepithelial neoplasia (PIN) and intraductal carcinoma through retrograde glandular colonization. *J. Pathol.* 2015-08-31 [PMID: 26331372] (IHC-P, Human)

Details:  
p63/TP73L antibody (clone 4A4) was used for IHC-P on human tissue sections from high-grade prostatic intraepithelial neoplasia (HGPIN) patients.

Palla AR, Piazzolla D, Alcazar N et al. The pluripotency factor NANOG promotes the formation of squamous cell carcinomas. *Sci Rep* 2015-01-01 [PMID: 25988972] (WB, Mouse)

Yang A, Kaghad M, Wang Y et al. p63, a p53 homolog at 3q27-29, encodes multiple products with transactivating, death-inducing, and dominant-negative activities. *Mol Cell.* 1998-09-01 [PMID: 9774969] (WB, IHC-P)

Details:  
IHC (P), Fig 1: human epithelial tissues; WB: Fig 5, primary human foreskin keratinocytes, ME180 human cervical carcinoma cells, and BHK cells expressing p63 isotypes. Note: This is the original (first) 4A4 clone citation. The 4A4 antibody was shown to recognize all p63 isotypes by western blot (Fig 5).

De Las Heras M, de Martino A, Borobia M et al. Solitary Tumours Associated with Jaagsiekte Retrovirus in Sheep are Heterogeneous and Contain Cells Expressing Markers Identifying Progenitor Cells in Lung Repair. *J Comp Pathol.* 2013-10-29 [PMID: 24176105] (IF/IHC, Sheep)

Lotan TL, Gumuskaya B, Rahimi H et al. Cytoplasmic PTEN protein loss distinguishes intraductal carcinoma of the prostate from high-grade prostatic intraepithelial neoplasia *Mod Pathol* 2012-12-07 [PMID: 23222491] (IF/IHC, Human)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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