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Datasheet

Date : 2016/11/15

Catalog Number	GTX102425 Package:25 µl,100 µl ★★★★★ (1) Reference (4)
Product Name	p63 antibody [N2C1], Internal
Full Name	tumor protein p63
Synonyms	AIS antibody, B(p51A) antibody, B(p51B) antibody, EEC3 antibody, KET antibody, LMS antibody, NBP antibody, OFC8 antibody, RHS antibody, SHFM4 antibody, TP53CP antibody, TP53L antibody, TP73L antibody, p40 antibody, p51 antibody, p53CP antibody, p63 antibody, p73H antibody, p73L antibody, TP63 antibody, keratinocyte transcription factor KET antibody, CUSP antibody, amplified in squamous cell carcinoma antibody, tumor protein p53-competing protein antibody, tumor protein p63 deltaN isoform delta antibody, chronic ulcerative stomatitis protein antibody, tumor protein 63 antibody, transformation-related protein 63 antibody, tumor protein p63 antibody
Product Description	Rabbit Polyclonal antibody to p63 (tumor protein p63)
Background	This gene encodes a member of the p53 family of transcription factors. An animal model, p63 -/- mice, has been useful in defining the role this protein plays in the development and maintenance of stratified epithelial tissues. p63 -/- mice have several developmental defects which include the lack of limbs and other tissues, such as teeth and mammary glands, which develop as a result of interactions between mesenchyme and epithelium. 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. Both alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different proteins. Many transcripts encoding different proteins have been reported but the biological validity and the full-length nature of these variants have not been determined. [provided by RefSeq]
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Immunogen	Recombinant protein encompassing a sequence within the center region of human p63. The exact sequence is proprietary.
Antigen Species	Human
Species Reactivity	Human, Mouse, Rat
Predicted Cross Reactivity species	Zebrafish, Chicken, Bovine
Predict Reactivity Note	Zebrafish (91%), Chicken (96%), Bovine (100%)
Applications	ICC/IF, IHC-P, IP, WB

Application Note

	Suggested dilution	Reference
Immunocytochemistry/ Immunofluorescence	1:100-1:1000*	
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Immunoprecipitation	1:100-1:500*	
Western blot	1:500-1:3000*	

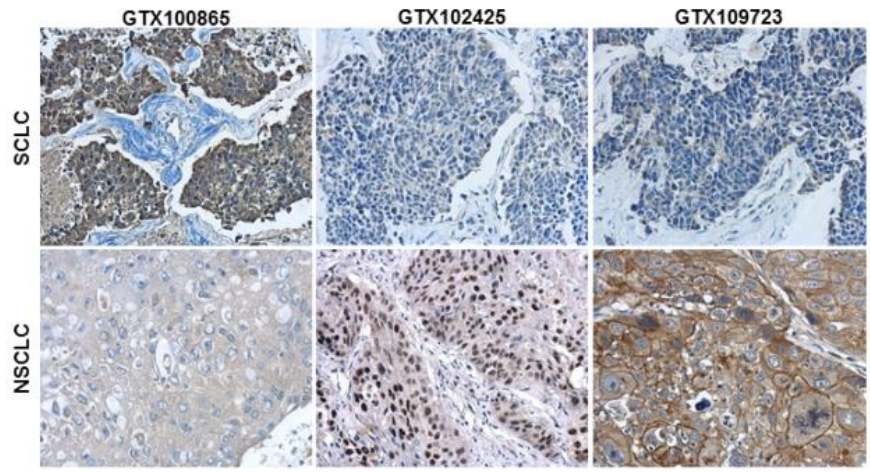
Not tested in other applications.
*Optimal dilutions/concentrations should be determined by the researcher.

Positive Controls	A431 , mouse brain , rat brain
Predicted Target Size	77 kDa
Cellular Localization	Nucleus
Conjugation	Unconjugated
Form Supplied	Liquid

Purification	Purified by antigen-affinity chromatography.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Cancer > Apoptosis > Anti-apoptosis Cancer > Apoptosis > Induction > DNA damage sensors Cancer > Apoptosis > Nervous system > Neuron

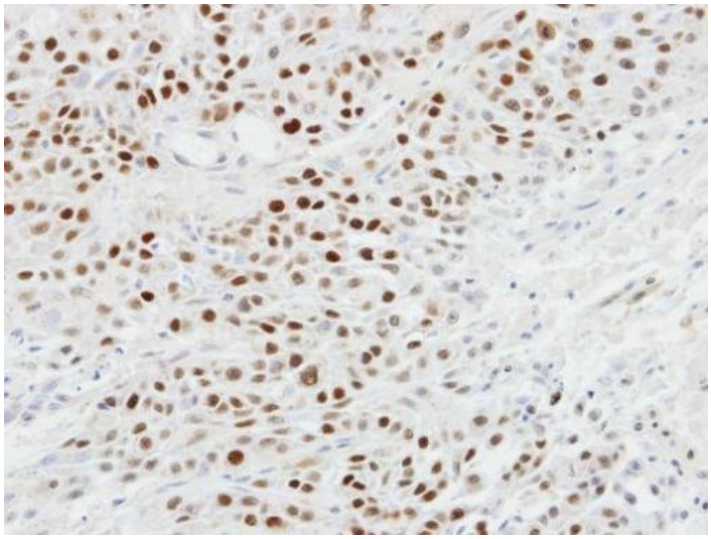
Application Reference

1. Sasaki Y (2016) *Oncotarget*
2. Qu Y (2016) *Sci Rep* 32007
3. Zhu D (2014) *Int J Gynecol Cancer*
4. Chang HL (2013) *Biochim Biophys Acta* 4053-64



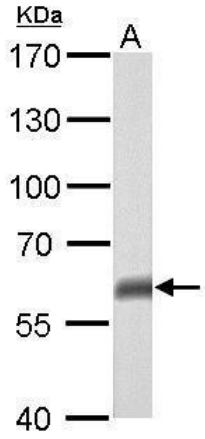
GTX102425 IHC-P Image

Immunohistochemical characterization of Synaptophysin (GTX100865), p63 (GTX102425) and Cytokeratin 7 (GTX109723) in human small cell lung cancer (SCLC) and non-small cell lung cancer (NSCLC) specimens.
Sample: Paraffin-embedded human SCLC (upper panel) and NSCLC (lower panel).
The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 15 mins. The section was then incubated with primary antibody at 1:500 overnight at 4℃ and detected using an HRP conjugated avidin-biotin-peroxidase Complex system. DAB was used as the chromogen and counterstained with haematoxylin.



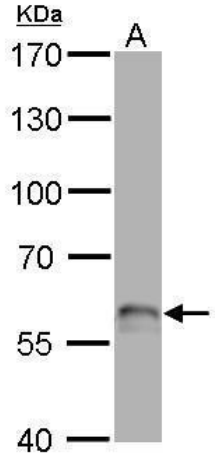
GTX102425 IHC-P Image

Immunohistochemical analysis of paraffin-embedded SCC4 xenograft, using p63(GTX102425) antibody at 1:100 dilution.



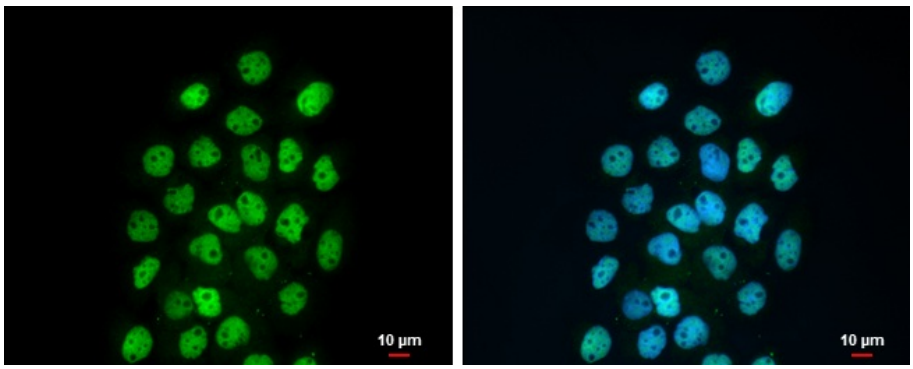
GTX102425 WB Image

p63 antibody [N2C1], Internal detects TP63 protein by Western blot analysis.
A. 50 µg mouse brain lysate/extract
7.5 % SDS-PAGE
p63 antibody [N2C1], Internal (GTX102425) dilution: 1:500



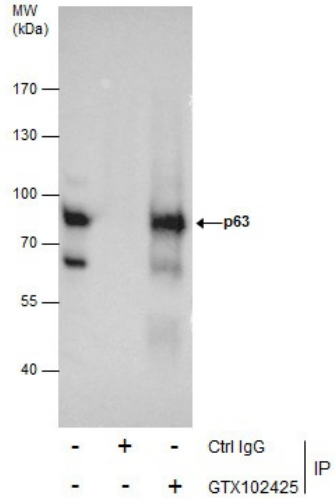
GTX102425 WB Image

p63 antibody [N2C1], Internal detects TP63 protein by Western blot analysis.
A. 50 µg rat brain lysate/extract
7.5 % SDS-PAGE
p63 antibody [N2C1], Internal (GTX102425) dilution: 1:500



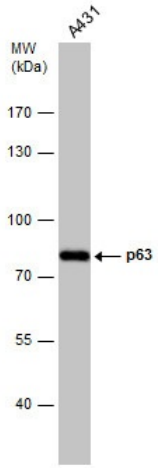
GTX102425 ICC/IF Image

p63 antibody [N2C1], Internal detects p63 protein at nucleus by immunofluorescent analysis.
Sample: A431 cells were fixed in 4% paraformaldehyde at RT for 15 min.
Green: p63 protein stained by p63 antibody [N2C1], Internal (GTX102425) diluted at 1:500.
Blue: Hoechst 33342 staining.
Scale bar = 10 µm.



GTX102425 IP Image

Immunoprecipitation of p63 protein from A431 whole cell extracts using 5 µg of p63 antibody [N2C1], Internal (GTX102425).
Western blot analysis was performed using p63 antibody [N2C1], Internal (GTX102425).
EasyBlot anti-Rabbit IgG (GTX221666-01) was used as a secondary reagent.



GTX102425 WB Image

Whole cell extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with p63 antibody [N2C1], Internal (GTX102425) diluted at 1:1000.