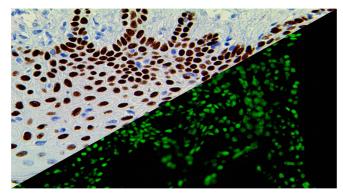


p63

Clone: 4A4 Mouse Monoclonal







Inset: IHC of p63 on a FFPE Basal Cell Carcinoma Tissue, IF on a FFPE Tonsil Tissue

Intended Use

For In Vitro Diagnostic Use.

This antibody is intended for use in Immunohistochemical and Immunofluorescence applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.

Immunogen

Recombinant fragment corresponding to Human p63 aa 1-205.

Summary and Explanation

In addition to p53, mammalian cells contain two homologous genes, p63 and p73. These genes give rise to the expression of proteins that are highly similar to p53 in structure and function. In particular, p63 and p73 proteins can induce p53-responsive genes and elicit programmed cell death. p73 and p63 are important during development and differentiation. In particular, p63 appears to be primarily implicated in epithelial development.

Anti-p63 to human p63 protein labels an epitope common to all six p63 isotypes (TAp63 α , TAp63 β , TAp63 γ , Δ Np63 α , Δ Np63 β , Δ Np63 γ). p63 labels the nuclei of myoepithelial cells in the prostate gland as well as breast tissue, making it useful in differentiating benign vs. malignant prostate lesions and breast lesions.

Antibody Type	Mouse Monoclonal	Clone	4A4
Isotype	lgG2a/K	Reactivity	Paraffin, Frozen
Localization	Nuclear	Species Reactivity	Human, Mouse, Rat, Turtle
Control	Prostate, Breast, Skin, Salivary Gland		
Application	Cervical Cancer, Breast Cancer, Head & Neck Cancer, Kidney & Urothelial Cancer, Lung Cancer, Prostate Cancer, Thyroid & Parathyroid Cancer, Melanoma & Skin Cancer, Carcinomas of Unknown Primary Site		

Presentation

Anti-p63 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Catalog No.	Presentation	Dilution	Volume
BSB 3602	Tinto Predilute	Ready-to-Use	3.0 mL
BSB 3603	Tinto Predilute	Ready-to-Use	7.0 mL
BSB 3604	Tinto Predilute	Ready-to-Use	15.0 mL
BSB 3605	Concentrate	1:50 - 1:200	0.1 mL
BSB 3606	Concentrate	1:50 - 1:200	0.5 mL
BSB 3607	Concentrate	1:50 - 1:200	1.0 mL

Control Slides Available

Catalog No.	Quantity	
BSB-9327-CS	5 slides	

Storage Store at 2-8°C (Control Slides: Store at 20-25°C)

Precautions

- 1. For professional users only. Results should be interpreted by a qualified medical professional.
- 2. This product contains <0.1% sodium azide (NaN $_3$) as a preservative. Ensure proper handling procedures are used with this reagent.
- Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents.
- 4. Dispose of unused solution with copious amounts of water.
- 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
- 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
- 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
- 8. For additional safety information refer to Safety Data Sheet for this product.
- 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

Stability

This product is stable up to the expiration date on the product label. Do not use after expiration date listed on the package label. Temperature fluctuations should be avoided. Store appropriately when not in use and avoid prolonged exposure to room temperature conditions.

Specimen Preparation

Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033), or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

Frozen sections and cell preparations: The antibody can be used on acetone-fixed frozen sections and acetone-fixed cell preparations.

IHC Protocol

Preparation for Frozen Tissues Procedure

- 1. Embed the specimen in OCT inside the cryostat.
- 2. Cut sections at 5 microns.
- 3. Place the section on a positively charged glass slide.
- 4. Air dry for 30-60 minutes.
- 5. Fix in acetone 100% for 2-10 minutes.
- 6. Air dry for another 10 minutes.

Preparation for FFPE Tissues Procedure

- Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028).
 Air dry for 2 hours at 58° C.
- 3. Deparaffinize, dehydrate, and rehydrate tissues.
- 4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).
- 5. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.

b. TintoRetriever PT Module or Water Bath Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.

c. Conventional Steamer Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.

- 6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
- 7. For manual IF\IHC, perform antibody incubation at ambient temperature. For automated IF\IHC methods, perform antibody incubation according to instrument manufacturer's instructions.
- 8. Wash slides with ImmunoDNA washer or DI water.
- 9. Continue IF\IHC protocol. Wash slides between each step with ImmunoDNA washer solution.

Abbreviated Immunohistochemical Protocol

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Abbreviated AmpliDetector Plus FITC IF Protocol

Step	Incubation Time	
Rinse slides in IF wash buffer		
Drain and wipe excess IF wash buffer off slide		
Peroxidase Blocker	5 min.	
Apply Antibody	5 min.	
Apply Mouse/Rabbit Link	5 min.	
Apply HRP Label	5 min.	
Keep FITC reagents and slides in the dark		
Apply AmpliDetector FITC solution	5 min.	
Coverslip with IF mounting medium		

Mounting Protocol IHC:

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent-based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.

Mounting Protocol IF:

- 1. Bring FluoroMounter or FluoroMounter with DAPI to room temperature.
- 2. Rinse slides with distilled or deionized water.
- 3. Remove excess water from slides before laying them flat in the dark.
- 4. Turn the media bottle upside down before opening the dropper bottle.
- 5. Apply 1-3 drops of FluoroMounter to each slide making sure the specimen is covered.
- 6. Incubate 3-5 minutes at room temperature in the dark.
- 7. Coverslip.
- 8. Observe under a fluorescent microscope using the appropriate filters.
- 9. The slides are recommended to be stored at 2-8 °C in the dark.

Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

References

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- 3. Yang A, et al. Nature. 1999;398:714-18
- 4. Barbareschi M, et al. Am J Surg Pathol. 2001;Aug;25(8);1054-60
- 5. Werling RW, et al. Am J Surg Pathol. 2003;Jan;27(1):82-90
- 6. Rajal B Shah, et al. Am J Surg Pathol. 2002;26(9):1161-1168
- 7. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012. https://www.cdc.gov/mmwr/pdf/other/su6101.pdf

Symbol Key / Légende des symboles/Erläuterung der Symbole

QAdvis EAR AB Storage Temperature Manufacturer Catalog Number Ideon Science Park Limites de température Référence du catalogue EC **REP Fabricant** REF Scheelevägen 17 Zulässiger Temperaturbereich Hersteller Bestellnummer SE-223 70 Lund, Sweden Read Instructions for Use In Vitro Diagnostic Medical Device **Expiration Date** Lot Number Consulter les instructions $\begin{bmatrix} \mathbf{i} \end{bmatrix}$ Dispositif médical de diagnostic in vitro **IVD** Utiliser jusque LOT Code du lot d'utilisation In-Vitro-Diagnostikum Verwendbar bis Chargenbezeichnung Gebrauchsanweisung beachten



