



MOUSE ANTI-PROSTATE SPECIFIC ANTIGEN MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB4082	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	xx mg/mL
ALTERNATE NAMES:	CD44std; H-CAM	HOST/ISOTYPE:	Ms IgG1 _κ
CLONE NAME:	TD11B3-4 (131-14234)		
BACKGROUND:	Prostate Specific Antigen (PSA) is a tumor associated antigen with a molecular weight of 34 kD. PSA is found in normal prostatic epithelial lining cells of the ducts and acini, as well as in primary and metastatic prostate carcinoma cells. PSA reactivity may also be found in BPH (benign prostatic hypertrophy), though the pattern of staining is different than that found in carcinoma tissues. The staining pattern ranges from cytoplasmic and secretory in normal and benign prostate to cytoplasmic with membrane in neoplastic prostate.		
SPECIFICITY:	Recognizes human Prostate Specific Antigen (PSA) at a molecular weight of 34 kDa.		
APPLICATIONS:	<u>Immunohistochemistry:</u> frozen and formalin-fixed paraffin-embedded tissue sections; see attached protocol <i>Optimal working dilutions must be determined by end user.</i>		
SPECIES REACTIVITY:	Human. Reactivity with other species has not been determined.		
IMMUNOGEN:	PSA prepared from human seminal fluid.		
PRESENTATION:	Protein A purified immunoglobulin in 10mM phosphate, pH 7.4, 150mM NaCl, containing 0.1% sodium azide.		
STORAGE/HANDLING:	Maintain at 2° to 8°C for up to 12 months from date of receipt.		

REQUIRED SUPPLEMENTAL MATERIAL:

1. 3% H₂O₂: 50 mL 3% H₂O₂ and 200 mL 80% methanol (final concentration = 0.3% H₂O₂).
2. PBS
3. Ethyl Alcohol: histology grade
4. Methanol: histology grade
5. Acetone: histology grade
6. Xylene: histology grade
7. Mounting Medium
8. Hematoxylin: Gill #1
9. Goat Anti-Mouse Biotin
10. Streptavidin-HRP: Dilute in PBS and let stand for 15 minutes before use.
11. DAB: Prepare about 15 minutes before use. **(WARNING: DAB is a possible carcinogen; avoid contact with skin.)**
12. Normal Goat Serum (10% in PBS)



SAMPLE PREPARATION PROCEDURE:

- **FROZEN SECTIONS** (cut at 8 microns): Follow procedure below except frozen or fresh cut sections are air dried for 30 minutes at room temperature, fixed in acetone for 2-3 minutes, air dried for 30 minutes at room temperature.
- **SMEARS:** Follow the same as frozen sections procedure except fix with methanol for 30 minutes at 4C.
- **CYTOSPINS:** Cell lines and other cell populations are prepared using 40,000 cells in 500 μ L of 10% Normal Goat Serum per well. Spin for 6 minutes at 1200 RPM. Air dry for 30 minutes at room temperature, fix in acetone for 2-3 minutes for tumor cells, or in 100% methanol for 20 minutes for peripheral blood preps, and air dry for 30 minutes at room temperature.
- **PARAFFIN-EMBEDDED TISSUE SECTIONS:** Place slides in a 62°C oven for 15 minutes then in Xylene for 15 minutes. De-paraffinize sections through 2 minute sequential baths of: 50% Xylene/50% ethyl alcohol; 100% ethyl alcohol; 100% ethyl alcohol; 95% ethyl alcohol; 90% ethyl alcohol; 80% ethyl alcohol; 70% ethyl alcohol; 70% ethyl alcohol. Place slides in 0.3% H₂O₂ for 30 minutes.

STAINING PROCEDURE:

1. Place slides in running cool tap water for 5 minutes.
2. Shake off excess water and place slides on incubation racks; circle sections with PAP pen or diamond pen to identify.
3. Flood sections with 10% Normal Goat Serum (NGS) for 15 minutes.
4. Shake off excess NGS, flood sections with primary antibody dilution, and incubate for 35-40 minutes.
5. Flood sections with PBS for 2 minutes.
6. Wipe off excess PBS and flood sections with diluted Goat Anti-Mouse Biotin for 35-40 minutes.
7. Flood sections with PBS for 2 minutes.
8. Wipe off excess PBS and flood sections with streptavidin for 10 minutes or with ABC for 35-40 minutes.
9. Flood sections with PBS for 2 minutes.
10. Wipe off excess PBS and flood sections with diluted DAB for 6-8 minutes.
11. Place slides in cool running tap water for 5 minutes, in Gill #1 hematoxylin for 90 seconds, and back in cool running tap water for 5 minutes.
12. Paraffin-embedded slides are de-hydrated through 2 minute sequential baths of: 70% ethyl alcohol, 80% ethyl alcohol, 90% ethyl alcohol, 95% ethyl alcohol, 95% ethyl alcohol, 100% ethyl alcohol, 100% ethyl alcohol, 50% Xylene/50% ethyl alcohol, Xylene, Xylene.
13. Mount slides mounted using mounting medium.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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