

Cytokeratins (Clones: AE1/AE3), IHC-Paraffin Staining Report

Target Antigen:	Cytokeratins (Clones: AE1/AE3) Monoclonal Antibody
Catalog or ID #:	IHC2025
Host and Isotype:	Mouse IgG1 for both AE1 and AE3
Clone and Lot #:	Clones: AE1/AE3
Purity and Method:	Purified immunoglobulin
Concentration and Quantity:	Prediluted
Storage Conditions:	2-4.0°C refrigerated
Species Reactivity:	Human. Reactivity with other species has not been determined
IHC-Paraffin Fixation Tested:	10% neutral Buffered Formalin
IHC-Paraffin Titer:	N/A
IHC-Paraffin Pretreatment(s):	Heat Induced Epitope Retrieval (HIER): Recommend Citrate Buffer, pH 6.0 plus Protease K digestion. Over staining is observed with EDTA pH 8.0 and TE Buffer pH 9.0, no signal is detected without Epitope retrieval.
IHC-Paraffin Protocol:	IHC-Select, HRP-DAB (Brief Outline): Blocking Reagent for 5 min. Primary Antibody (or Negative Control Reagent) for 10 min. Biotinylated Secondary Antibody for 10 min. Streptavidin-HRP for 10 min. DAB for 10 min. Hematoxylin for 1 min.
Positive Tissue(s):	Wide spectrum general stain for normal and neoplastic cells of epithelial origin. Anti-Keratin AE1 recognizes the 56.5, 50, 50', 48 and 40 KD Keratins of the acid subfamily. Anti-Keratin AE3 recognizes all members of the basic subfamily.
Subcellular Location(s):	Cytoplasmic staining
Negative Tissue(s):	Non-epithelial origin tissue
Comments and References:	Staining is as expected since it is immunoreactive in the cytoplasm of basal and epidermal layer of epithelial cells.



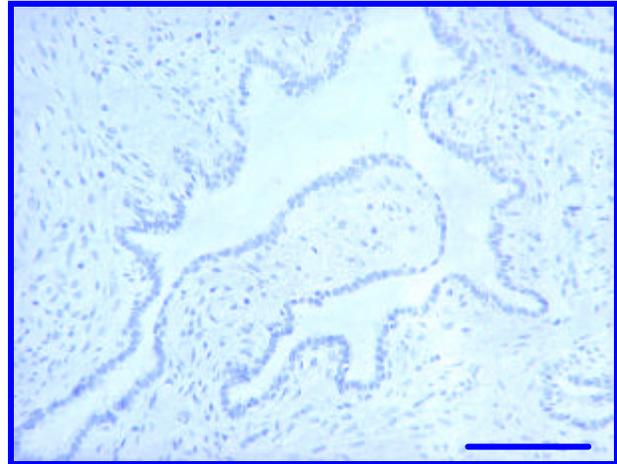
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IHC – Paraffin Staining Examples:

Pictures of Optimal Staining With Citrate Buffer and Protease K Digestion Epitope Retrieval: Prostate Carcinoma



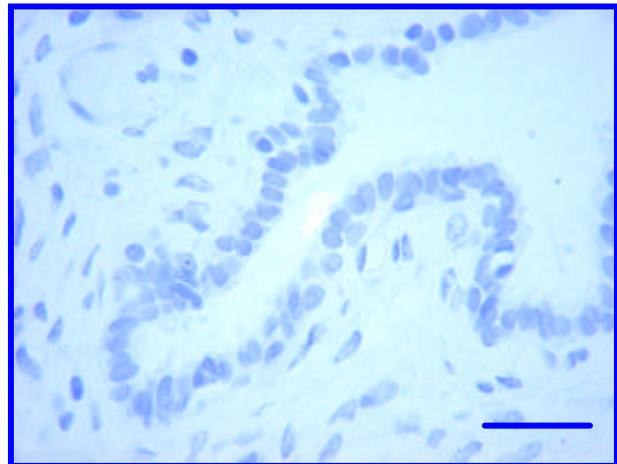
Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with Citrate Buffer, pH 6.0 + Protease K digestion. Prediluted antibody, IHC-Select Detection with HRP-DAB. Epithelial cells stain strongly (brown). Bar = 100 μ m.



Negative Control staining of Human Prostate Carcinoma. Tissue pretreated with Citrate Buffer, pH 6.0 + Protease K digestion. Negative Control Reagent, IHC-Select Detection with HRP-DAB. No background staining is detected. Bar = 100 μ m.



Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with Citrate Buffer, pH 6.0 + Protease K digestion. Prediluted antibody, IHC-Select Detection with HRP-DAB. Epithelial cells stain strongly (brown). Bar = 25 μ m.



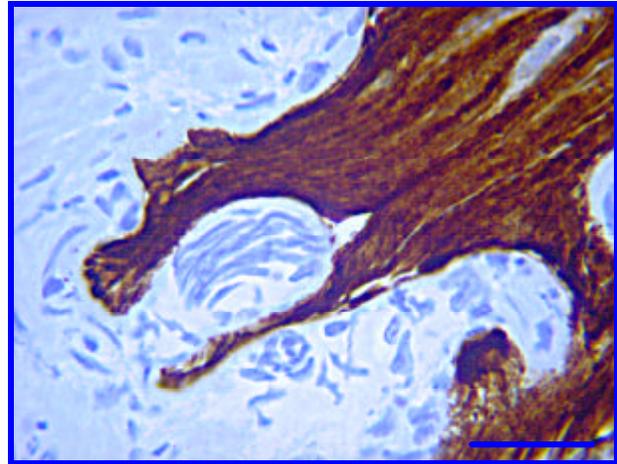
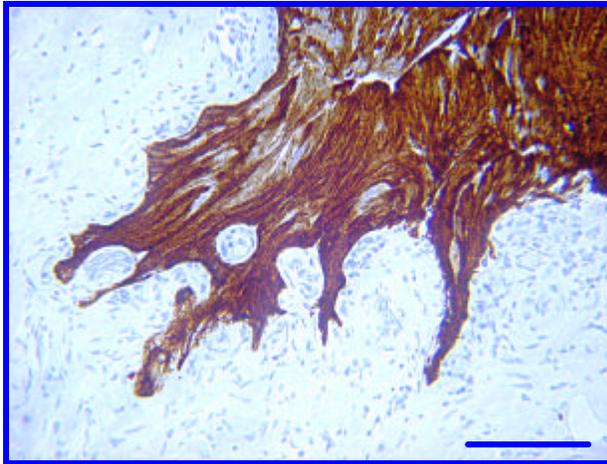
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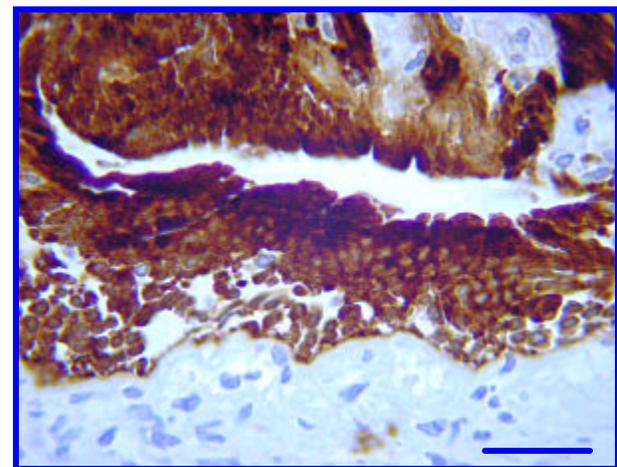
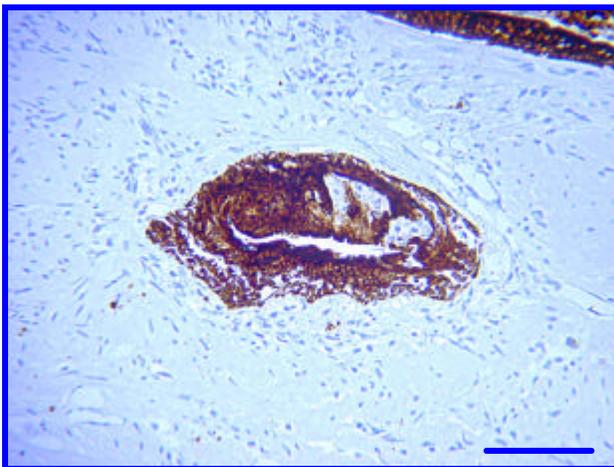
Pictures of Over Staining With EDTA Epitope Retrieval: Prostate Carcinoma



Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with EDTA, pH 8.0. Prediluted antibody, IHC-Select Detection with HRP-DAB. Cancer cells stain very strongly (brown) with diffusive background staining. Bar = 100 μ m.

Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with EDTA, pH 8.0. Prediluted antibody, IHC-Select Detection with HRP-DAB. Cancer cells stain very strongly (brown) with diffusive background staining. Bar = 25 μ m.

Pictures of Over Staining With TE Buffer Epitope Retrieval: Prostate Carcinoma



Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with TE Buffer, pH 9.0. Prediluted antibody, IHC-Select Detection with HRP-DAB. Cancer cells stain very strongly (brown) with diffusive background staining. Bar = 100 μ m.

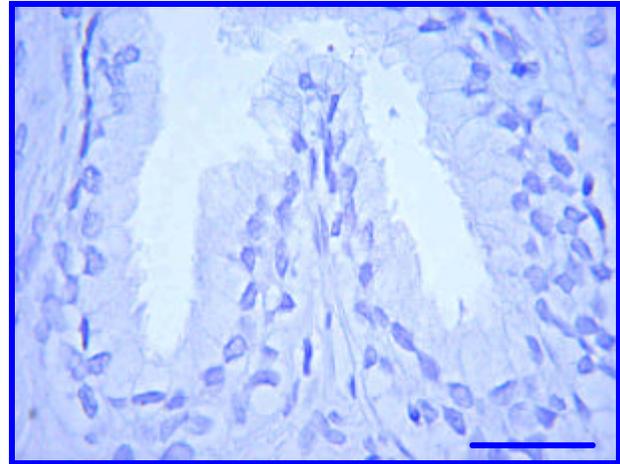
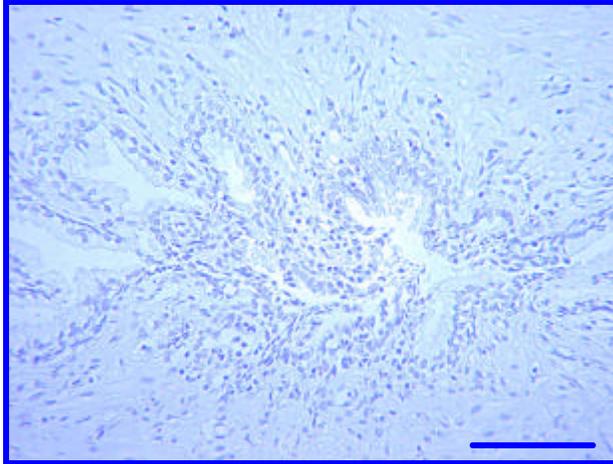
Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated with TE Buffer, pH 9.0. Prediluted antibody, IHC-Select Detection with HRP-DAB. Cancer cells stain very strongly (brown) with diffusive background staining. Bar = 25 μ m.



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IHC – Paraffin Staining Examples:

Pictures of Staining Without Epitope Retrieval: Prostate Carcinoma



Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated without Epitope retrieval. Prediluted antibody, IHC-Select Detection with HRP-DAB. No signal is detected. Bar = 100 μ m.

Cytokeratin (IHC2025, Clones: AE1/AE3) staining of Human Prostate Carcinoma. Tissue pretreated without Epitope retrieval. Prediluted antibody, IHC-Select Detection with HRP-DAB. No signal is detected. Bar = 25 μ m.