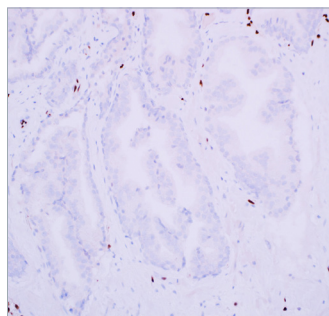
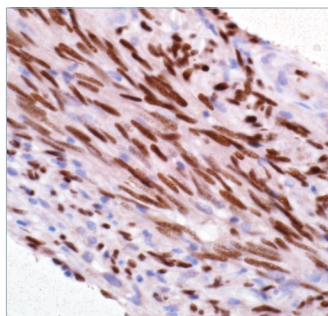
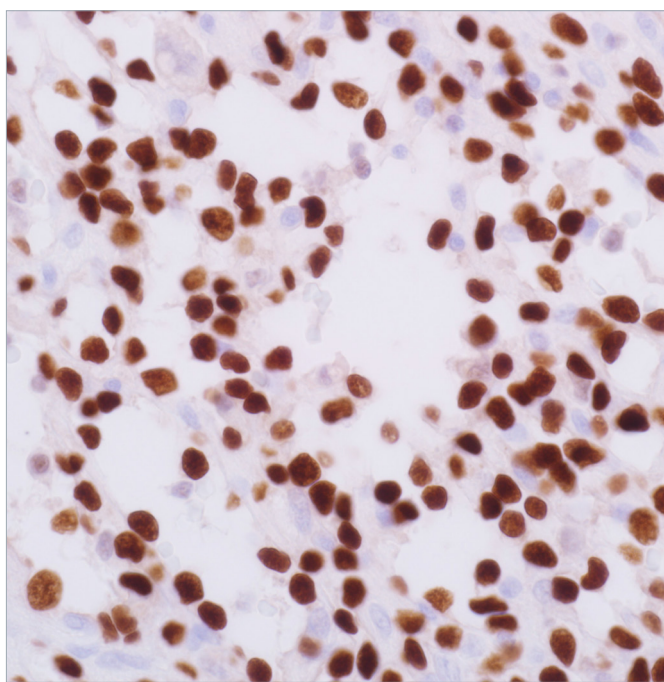
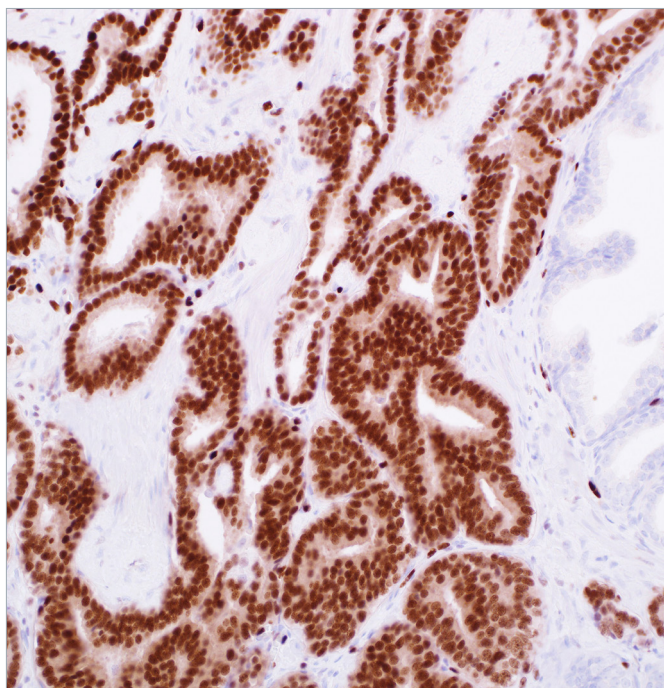


Spotlight on: ERG (EP111)



Thytroblast transformation specific related gene, also known as ERG, is a transcription factor associated with endothelial differentiation as well as prostate malignancy. Studies have shown that anti-ERG compares favorably to CD31 and CD34 antibodies in terms of sensitivity and specificity in the identification of angiosarcoma and hepatic angiosarcoma^{1,2}, and hemangioendotheliomas³. In epithelial tumors, ERG immunostaining shows very high specificity (99%) for prostate carcinoma³.

Benefits of ERG:

- *In vitro* diagnostic
- Nuclear visualization
- ERG protein expression is more specific than AMACR (P504s) staining for prostate carcinoma.³
- The Kim et al paper concludes that "the present study demonstrated a superiority with ERG immunostaining and indicated that ERG is a promising panendothelial marker that might help pathologists increase LVI detection and decrease interobserver variability in LVI diagnosis"⁴
- ERG transcription factor is a preferred option to the cytoplasmic CD31 and CD34 for labeling both hemangiomas and lymphangiomas.⁵
- ERG has the sensitivity of a rabbit antibody with the specificity and cleanliness of a monoclonal antibody for a strong signal to noise ratio.

References:

1. Sullivan HC, et al. *J Clin Pathol.* 2015; 68:44-50
2. Requena L, et al. *JAMA Dermatol.* 2013; 149:459-65
3. Tomlins SA, et al. *Arch Pathol Lab Med.* 2012; 136:935-46
4. Kim S, et al. *Korean J Pathol.* 2013;47:355-64
5. Miettinen M, et al. *Am J Surg Pathol.* 2011; 35:432-41

Photo Information:

Top: Prostatic acinar carcinoma is stained positively by ERG antibody in a nuclear pattern. Note on the right, the low grade prostate intraepithelial neoplasia is completely negative for ERG.

Center: ERG antibody shows a nuclear staining in hepatic hemangioendothelioma.

Bottom-left: Kaposi sarcoma cells are highlighted by the ERG monoclonal antibody in a nuclear reaction.

Bottom-right: Prostate hyperplasia shows no staining by ERG antibody. Note in the background, endothelial cells are stained positive as internal positive control.

Ordering Information:

Volume	Part No.	Volume	Part No.
0.1 ml, concentrate	434R-14	1 ml, prediluted	434R-17
0.5 ml, concentrate	434R-15	7 ml, prediluted	434R-18
1 ml, concentrate	434R-16	Positive control slides	434S

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