
ERG (Clone EP111, as same as EPR3864)

Rabbit Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: A synthetic peptide corresponding to residues on the C-terminus in human ERG protein

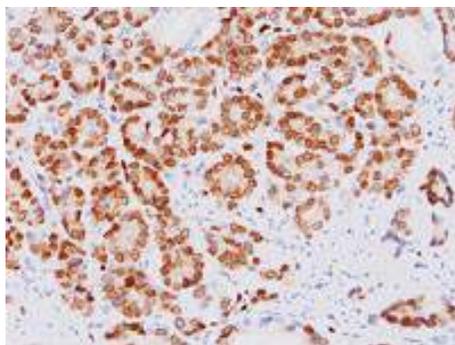
Ig Class: Rabbit IgG

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Positive Control:* Prostate adenocarcinoma. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

Description: In prostate cancer, the ERG gene locus may undergo a chromosomal translocation with the androgen-regulated transmembrane protease serine 2 (TMPRSS2) gene, resulting in the expression of an TMPRSS2-ERG oncoprotein; a new diagnostic marker of prostate cancer. The TMPRSS2-ERG fusion has been found to be the most common proto-oncogene present in prostate cancers, occurring in 50-70% of cases. Molecular methods (FISH, bDNA) have shown a strong correlation between TMPRSS2-ERG rearrangement status and ERG expression, as detected by IHC. ERG oncoprotein expression has been shown to be a highly specific marker for prostate cancer. Given the lack of ERG expression in a wide variety of normal epithelial tissues and tumors, and its robust presence in prostatic adenocarcinoma, detection of ERG by IHC is a valuable tool for diagnosing prostate cancer or determining prostatic origin. ERG is also high expressed in vascular endothelial cells, making it a very specific marker for vascular tumors.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



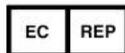
Formalin-fixed, paraffin-embedded human prostate carcinoma stained with anti-ERG using peroxidase-conjugate and DAB chromogen. Note nuclear staining of carcinoma cells.

Cat. #Z2280 (1.0 ml)

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