

Rabbit Anti-ERG [EP111]: RM0094

Intended Use: For Research Use Only

Description: ERG, the ETS related gene, belongs to the ETS family that plays important roles in cell development, differentiation, proliferation, apoptosis and tissue remodeling. This family of transcription factors contains approximately 30 members that share a highly conserved DNA-binding domain (ETS domain) and differs from each other in other domains (such as absence or presence of the Pointed/SAM domain) and are thus distinguished in sub-families. The aberrant expression of several ETS proteins is involved in tumor development and progression. ERG belongs to the Erg/Fli-1 sub-family. Its involvement in human cancers has been widely studied. ERG is linked to normal processes such as mesoderm formation and is found to form functional complexes with Jun/Fos, with the resulting ternary complexes regulating expression of proteins such as metalloprotease-1 (MMP-1) and MMP-3. EWS-ERG, or EWS-Fli-1 fusion, is a characteristic of Ewing's sarcoma. TMPRSS2-ERG fusion, which occurs on account of translocations and interstitial deletions, is implicated in aggressive forms of prostate cancer. Eighty percent of prostate tumors contain genomic fusions of TMPRSS2 and members of the ETS family of transcription factors. Of these, about 50% contain TMPRSS2-ERG fusions. Interestingly, prostate cancers with TMPRSS2-ERG fusion have been found to have five morphological features: blue-tinted mucin, cribriform growth pattern, macronucleoli, intraductal tumor spread, and signet-ring cell features. ERG overexpression is associated with aggressive tumor behavior and patient survival in prostate cancer. The ERG antibody labels endothelial cells, lymphocytes and prostate cancer cells. This ERG antibody also recognizes Fli-1 by western blot analysis.

Specifications:

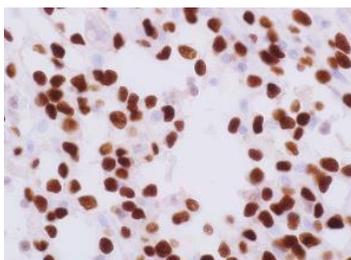
Clone: EP111
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.2, containing < 0.2% BSA and < 0.09% sodium azide (NaN3).
 Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
 Applications: IHC
 Package:

Description	Catalog No.	Size
ERG Concentrated	RM0094	1 ml

IHC Procedure*:

Positive Control Tissue: Prostate cancer
 Concentrated Dilution: 10-30
 Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



Human FFPE hepatic hemangioendothelioma stained with anti-ERG antibody using DAB