

ERG Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50123

Clone# BP6127

Predicted Molecular Wt: 55kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P11308

Background:

ERG (ETS-related gene) is a proto-oncogene, a member of the ETS family of transcription factors. The ERG gene encodes for a nuclear protein, also called ERG, which is involved in hematopoietic and endothelial development. ERG remains constitutively expressed in endothelial cells in blood and lymphatic vessels, and in bone marrow stem cells.

ERG is expressed in virtually all endothelial neoplasms including haemangioendothelioma, angiosarcoma and Kaposi sarcoma. ERG is overexpressed secondary to gene rearrangement in cases of prostate adenocarcinoma, gastrointestinal stromal tumour, synovial sarcoma, meningioma, epithelioid sarcoma, malignant rhabdoid tumour, acute myeloid leukemia and blastic extramedullary myeloid tumor, and rarely Ewing sarcoma / primitive peripheral neuroectodermal tumour, chondrosarcoma, osteosarcoma, and rhabdomyosarcoma.

For the identification of endothelial differentiation ERG seems more sensitive and specific than any other marker. Moreover, the interpretation is often easier due to the nuclear reaction, which also allows for double stains with cytoplasmic markers like podoplanin. Among carcinomas, ERG is highly specific for prostate, while the sensitivity is moderate.

Subcellular location:

Nucleus

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to residues within aa450 to C-terminus of ERG was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

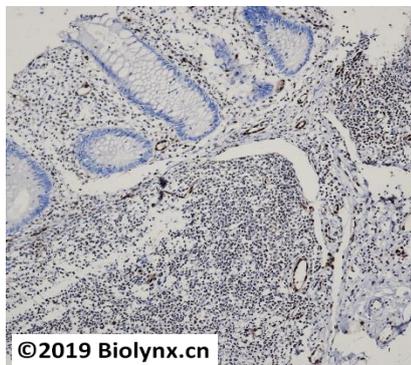
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Miettinen M. Histopathology. 2014 Jan;64(1):101-18.
2. Stockman DL, Mod Pathol. 2014 Apr;27(4):496-501.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of appendix labelling ERG with BP6127. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.