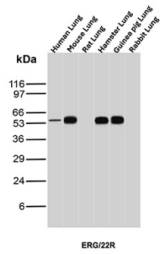
ERG Antibody / Transcriptional regulator ERG [clone ERG/22R] (V8970)

Catalog No.	Formulation	Size
V8970-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8970-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8970SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

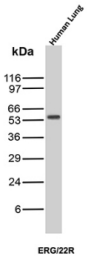
Recombinant RABBIT MONOCLONAL

Bulk quote request

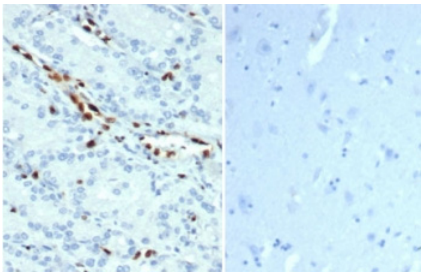
Availability	1-3 business days
Species Reactivity	Human, Mouse, Hamster, Guinea pig
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ERG/22R
Purity	Protein A/G affinity
UniProt	P11308
Localization	Nucleus, cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml (Human) Western blot: 2-4ug/ml (Human/Mouse/Hamster/Guinea pig)
Limitations	This ERG antibody is available for research use only.



ERG Antibody Tissue WB. Western blot analysis of human lung, mouse lung, rat lung, hamster lung, guinea pig lung, and rabbit lung tissue lysates using ERG antibody (clone ERG/22R) detects a band at approximately 50-55 kDa, consistent with the predicted molecular weight of the ERG transcription factor, with comparable expression observed across species.



ERG Antibody Human Lung Tissue WB. Western blot analysis of human lung tissue lysate using ERG antibody (clone ERG/22R) detects a band at approximately 50-55 kDa, consistent with the predicted molecular weight of the ERG transcription factor.



ERG Antibody Human Prostate Tissue IHC. Immunohistochemistry staining of FFPE human prostate tissue (left) and negative control human brain tissue (right) with ERG antibody (clone ERG/22R) at 1ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

ERG Antibody detects ERG (ETS-related gene), 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 constitually expressed in endothelial cells in blood and lymphatic vessels, and in bone marrow stem cells. ERG is expressed in virtually all endothelial neoplasms including hemangioendothelioma, angiosarcoma and Kaposi sarcoma. ERG is overexpressed secondary to gene rearrangement in cases of prostate adenocarcinoma, gastrointestinal stromal tumor, synovial sarcoma, meningioma, epithelioid sarcoma, malignant rhabdoid tumor, acute myeloid leukemia and blastic extramedullary myeloid tumor, and rarely Ewing sarcoma / primitive peripheral neuroectodermal tumor, 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.

A microarray-validated ERG antibody for IHC applications is available.

Application Notes

Optimal dilution of the ERG antibody should be determined by the researcher.

Immunogen

A portion of amino acids between AA 450 and the C-terminus of human ERG protein was used as the immunogen for the recombinant EGR antibody.

Storage

Aliquot the ERG antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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