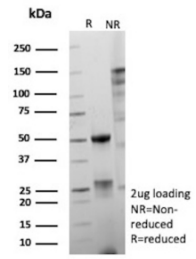
ERG Antibody / ERG transcription factor [clone ERG/9604R] (V5878)

Catalog No.	Formulation	Size
V5878-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5878-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5878SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	ERG/9604R
UniProt	P11308
Localization	Nucleus
Applications	ELISA
Limitations	This ERG/ERG transcription factor antibody is available for research use only.



SDS-PAGE Analysis of purified recombinant ERG/ERG transcription factor antibody (clone ERG/9604R). Confirmation of Purity and Integrity of Antibody.

Description

ERG antibody targets ERG transcription factor, a nuclear DNA-binding protein encoded by the ERG gene and a member of the ETS family of transcription factors. ERG functions as a sequence-specific regulator of gene expression and plays a central role in controlling cellular differentiation programs, lineage commitment, and maintenance of cell identity. Through transcriptional regulation, ERG influences diverse biological processes across vascular, hematopoietic, and developmental systems.

ERG transcription factor is localized to the nucleus, where it binds ETS consensus motifs within promoter and enhancer regions of target genes. Its activity is tightly regulated during development and in adult tissues, reflecting its importance in maintaining stable transcriptional states. ERG antibody detection is therefore useful for studying nuclear transcription factor expression and transcriptional network regulation in tissue-based and cell-based research models.

Functionally, ERG controls genes involved in cell survival, proliferation, and differentiation. In hematopoietic and progenitor cell populations, ERG supports lineage specification and self-renewal, while in endothelial and mesenchymal contexts it contributes to transcriptional programs governing structural and functional specialization. ERG antibody reagents support investigations into how transcription factors coordinate complex gene expression patterns underlying tissue development and homeostasis.

Dysregulation of ERG transcriptional activity has been implicated in multiple disease processes. Aberrant ERG expression or activation alters downstream gene networks and can contribute to pathological cell states, including malignant transformation and impaired differentiation. These transcriptional changes highlight the relevance of ERG antibody-based detection for research into disease-associated gene regulation and transcription factor dysfunction.

Clone ERG/9604R is designed to recognize ERG transcription factor in research applications. ERG antibody reagents are suitable for detecting nuclear ERG expression in diverse tissue types, supporting studies focused on transcriptional regulation, cell lineage biology, and disease-associated alterations in gene expression control.

Application Notes

1. Optimal dilution of the ERG/ERG transcription factor antibody should be determined by the researcher.

2. This ERG/ERG transcription factor antibody is recombinantly produced by expression in CHO cells.

Immunogen

A recombinant fragment (around amino acids 1-300) of human ERG protein (exact sequence is proprietary) was used as the immunogen for the ERG/ERG transcription factor antibody.

Storage

ERG/ERG transcription factor antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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