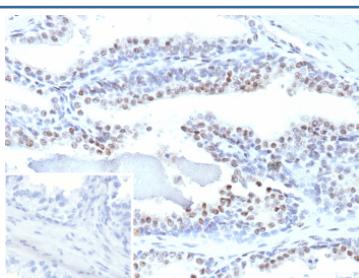


## ERG Antibody / Prostate cancer ERG [clone ERG1/12589] (V5877)

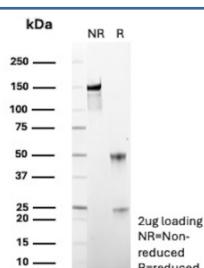
Catalog No.	Formulation	Size
V5877-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5877-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5877SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ERG1/12589
UniProt	P11308
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This ERG/Prostate cancer ERG antibody is available for research use only.



Immunohistochemistry analysis of ERG in human prostate carcinoma tissue. Formalin-fixed, paraffin-embedded human prostate carcinoma tissue was stained using ERG/Prostate cancer ERG antibody (clone ERG1/12589), showing distinct nuclear staining in tumor epithelial cells consistent with prostate cancer-associated ERG expression. Heat-induced epitope retrieval was performed by heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, at 95°C for 45 minutes, followed by cooling at room temperature for 20 minutes. Inset shows PBS substituted for the primary antibody as a secondary-only negative control.



SDS-PAGE Analysis of purified ERG/Prostate cancer ERG antibody (clone ERG1/12589). Confirmation of Purity and Integrity of Antibody.

## Description

ERG antibody targets ETS related gene, a nuclear transcription factor encoded by the ERG gene that is aberrantly expressed in a large subset of prostate cancers. In prostate carcinoma, ERG expression most commonly arises from gene rearrangements that place ERG under the control of androgen-responsive promoters, leading to inappropriate transcriptional activation in prostate epithelial cells. As a result, ERG antibody detection is widely used in research settings to study prostate cancer-associated transcriptional reprogramming.

In normal tissues, ERG expression is largely restricted to vascular endothelial cells and select hematopoietic populations. In contrast, nuclear ERG expression in prostate epithelial cells is considered abnormal and reflects oncogenic activation rather than normal differentiation. This distinction makes ERG antibody reagents particularly valuable for examining prostate tumor biology and for distinguishing malignant epithelial cells from surrounding benign glands in tissue-based studies.

Functionally, ERG acts as a transcriptional regulator that influences genes involved in cell migration, invasion, and survival. In prostate cancer models, ERG overexpression has been associated with altered chromatin organization and cooperation with androgen receptor signaling pathways, contributing to tumor initiation and progression. ERG antibody tools support investigations into how transcription factor dysregulation reshapes gene expression programs in prostate carcinoma.

ERG expression in prostate cancer is strongly associated with specific molecular subtypes and is frequently evaluated in the context of tumor classification and disease stratification research. Nuclear ERG positivity has been correlated with distinct histopathologic features and molecular profiles, making ERG antibody-based detection relevant for studies of prostate cancer heterogeneity and progression mechanisms.

Clone ERG1/12589 is designed to recognize ERG in research applications. ERG antibody reagents are suitable for detecting nuclear ERG expression in prostate cancer tissue samples, supporting studies focused on oncogenic transcription factor activity, prostate tumor biology, and disease-associated alterations in gene regulation.

## Application Notes

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

## Immunogen

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

## Storage

ERG/Prostate cancer ERG antibody with sodium azide - store at 2 to 8°C; antibody without sodium azide - store at -20 to -80°C.

