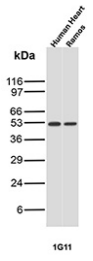
Transcription Factor ETS1 Antibody / Protein C-ets-1 [clone r1G11] (V5883)

Catalog No.	Formulation	Size
V5883-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5883-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5883SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

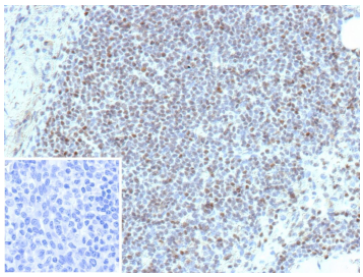
Recombinant MOUSE MONOCLONAL

Bulk quote request

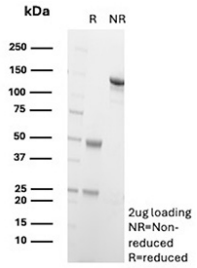
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	r1G11
UniProt	P14921
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Transcription Factor ETS1 antibody is available for research use only.



Western blot testing of human heart and human Ramos lysates using Transcription Factor ETS1 antibody (clone r1G11). Predicted molecular weight ~51 kDa.



Immunohistochemistry analysis of Transcription Factor ETS1 in human lymph node. Formalin-fixed, paraffin-embedded human lymph node tissue was stained with Transcription Factor ETS1 antibody (clone r1G11), showing brown nuclear staining in lymphoid cells consistent with ETS1 expression in immune cell populations. Inset shows a negative control section processed with PBS instead of the primary antibody, followed by secondary antibody only. Staining of formalin-fixed tissues required heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95oC followed by cooling at room temperature.



SDS-PAGE Analysis of Purified Transcription Factor ETS1 antibody (clone r1G11). Confirmation of Purity and Integrity of Antibody.

Description

Transcription Factor ETS1 antibody recognizes ETS1, a member of the ETS family of transcription factors that regulate gene expression programs involved in cell differentiation, proliferation, survival, and immune function. ETS1 is encoded by the ETS1 gene and is also historically referred to as Protein C-ets-1, reflecting its identification as the cellular homolog of the avian v-ets oncogene. ETS1 functions primarily as a nuclear protein, where it binds specific DNA sequences containing ETS motifs to modulate transcriptional activity in response to developmental and signaling cues.

ETS1 plays a well-established role in lymphoid biology, where it contributes to the regulation of T cell, B cell, and natural killer cell development. It influences cytokine gene expression, T cell receptor signaling responses, and immune cell activation thresholds. Beyond the immune system, ETS1 is involved in endothelial biology, vascular remodeling, and angiogenic processes through transcriptional control of genes associated with extracellular matrix interaction and cell migration. Because of these functions, Transcription Factor ETS1 antibody is widely used to study transcriptional regulation in both immune and vascular contexts.

In cancer biology, ETS1 has been implicated in tumor progression, invasion, and metastasis in multiple solid tumor types. Altered ETS1 expression has been associated with changes in cell motility, matrix degradation, and epithelial-mesenchymal transition through regulation of proteases, adhesion molecules, and cytoskeletal regulators. ETS1 activity is often modulated by post-translational mechanisms, including phosphorylation, which fine-tune its transcriptional output in response to upstream signaling pathways. These features make ETS1 a relevant target for studies examining transcriptional networks in oncogenesis and tumor microenvironment interactions.

Transcription Factor ETS1 antibody, also referred to as Protein C-ets-1 antibody in the literature, supports detection of ETS1 expression and localization in research settings focused on transcriptional control mechanisms. Clone r1G11 is designed to recognize ETS1 and enables analysis of its nuclear distribution patterns consistent with its role as a DNA-binding transcription factor. Clone r1G11 is suitable for investigating ETS1 expression dynamics across different biological states, including immune activation, developmental processes, and disease-associated transcriptional remodeling.

By enabling specific detection of ETS1, this antibody provides a valuable tool for researchers examining ETS family transcription factors, gene regulatory networks, and signaling-dependent transcriptional responses. Its utility extends to studies of immune regulation, vascular biology, and cancer-related transcriptional programs where ETS1 plays a documented regulatory role.

Application Notes

1. Optimal dilution of the Transcription Factor ETS1 antibody should be determined by the researcher.

2. This Transcription Factor ETS1 antibody is recombinantly produced by expression in CHO cells.

Immunogen

Prokaryotic recombinant protein corresponding to amino acids 38 to 308 of the human Ets-1 oncoprotein isoform 2 was used as the immunogen for the Transcription Factor ETS1 antibody.

Storage

ETS1/Protein C-ets-1 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.