

ETS1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP10718a

Product Information

Application FC, IF, WB, E **Primary Accession** P14921

Other Accession <u>P41156</u>, <u>P27577</u>, <u>NP_005229.1</u>

Reactivity Human, Rat, Mouse

Predicted Mouse, Rat
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB24587
Calculated MW 50408
Antigen Region 43-70

Additional Information

Gene ID 2113

Other Names Protein C-ets-1, p54, ETS1, EWSR2

Target/Specificity This ETS1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 43-70 amino acids from the N-terminal

region of human ETS1.

Dilution FC~~1:10~50 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ETS1 Antibody (N-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name ETS1

Synonyms EWSR2

Function Transcription factor (PubMed: <u>10698492</u>, PubMed: <u>11909962</u>). Directly

controls the expression of cytokine and chemokine genes in a wide variety of

different cellular contexts (PubMed: <u>20378371</u>). May control the differentiation, survival and proliferation of lymphoid cells

(PubMed:<u>20378371</u>). May also regulate angiogenesis through regulation of expression of genes controlling endothelial cell migration and invasion

(PubMed: 15247905, PubMed: 15592518).

Cellular Location Nucleus. Cytoplasm Note=Delocalizes from nucleus to cytoplasm when

coexpressed with isoform Ets-1 p27.

Tissue Location Highly expressed within lymphoid cells. Isoforms c- ETS-1A and Ets-1 p27 are

both detected in all fetal tissues tested, but vary with tissue type in adult

tissues. None is detected in brain or kidney.

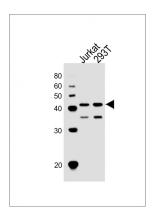
Background

ETS transcriptions factors, such as ETS1, regulate numerous genes and are involved in stem cell development, cell senescence and death, and tumorigenesis. The conserved ETS domain within these proteins is a winged helix-turn-helix DNA-binding domain that recognizes the core consensus DNA sequence GGAA/T of target genes (summary by Dwyer et al., 2007 [PubMed 17986575]).

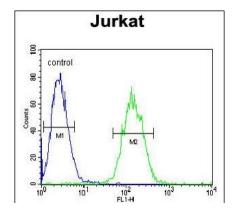
References

Harris, T.A., et al. Arterioscler. Thromb. Vasc. Biol. 30(10):1990-1997(2010) He, C.F., et al. Lupus 19(10):1181-1186(2010) Russell, L., et al. Cytokine 51(3):217-226(2010) Li, T., et al. Pharm Biol 48(2):161-165(2010) Kunderfranco, P., et al. PLoS ONE 5 (5), E10547 (2010) :

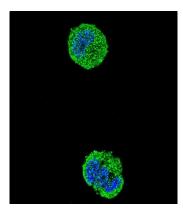
Images



All lanes: Anti-ETS1 Antibody (N-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysates Lane 2: 293T whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size: 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ETS1 Antibody (N-term) (Cat. #AP10718a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of ETS1 Antibody (N-term)(Cat#AP10718a) with MCF-7 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.