

# ETS-1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	52	Rabbit	#P14921	2113

## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation

### Dilution

1:1000  
1:50

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

ETS-1 Antibody recognizes endogenous levels of total ETS-1 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser179 of human ETS-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

ETS-1 is a proto-oncoprotein that belongs to the E26 Transformation-specific Sequence (ETS) family of transcription factors that share a unique and highly conserved DNA binding domain (1). ETS-1 plays important roles in vascular development and angiogenesis (2), and vascular inflammation and remodeling (3). The target genes of ETS-1 include receptor tyrosine kinases, MMPs, and cell adhesion molecules (4-6). In addition, ETS-1 is involved in regulation of energy metabolism in cancer cells (7). ETS-1 activity is regulated by two different types of phosphorylation sites. While phosphorylation at a cluster of serine residues in the exon VII domain by CaMKII inhibits ETS-1 DNA binding activity (8), phosphorylation at its Thr38 site by Ras activates ETS-1 (9).

## Background References

1. Bartel, F.O. et al. (2000) *Oncogene* 19, 6443-54.
2. Sato, Y. (2001) *Cell Struct Funct* 26, 19-24.
3. Oettgen, P. (2006) *Circ Res* 99, 1159-66.
4. Dube, A. et al. (1999) *Circ Res* 84, 1177-85.
5. Lelièvre, E. et al. (2000) *Oncogene* 19, 2438-46.
6. Ghosh, S. et al. (2012) *J Biol Chem* 287, 15001-15.
7. Verschoor, M.L. et al. (2010) *PLoS One* 5, e13565.
8. Pognonec, P. et al. (1988) *EMBO J* 7, 977-83.
9. Yang, B.S. et al. (1996) *Mol Cell Biol* 16, 538-47.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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