

ETS-1 (D8O8A) Rabbit mAb

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Applications: W, IP, IF-IC, ChIP, ChIP-seq, C&R, C&T	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #P14921	Entrez-Gene Id: 2113
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Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using the CUT&RUN Assay Kit #86652.

The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.

Application	Dilution
Western Blotting	1:2000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:3200 - 1:6400
Chromatin IP	1:50
Chromatin IP-seq	1:50
CUT&RUN	1:50
CUT&Tag	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

ETS-1 (D8O8A) Rabbit mAb recognizes endogenous levels of total ETS-1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser179 of human ETS-1 protein.

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

- Bartel, F.O. et al. (2000) *Oncogene* 19, 6443-54.
- Sato, Y. (2001) *Cell Struct Funct* 26, 19-24.
- Oettgen, P. (2006) *Circ Res* 99, 1159-66.
- Dube, A. et al. (1999) *Circ Res* 84, 1177-85.
- Lelièvre, E. et al. (2000) *Oncogene* 19, 2438-46.
- Ghosh, S. et al. (2012) *J Biol Chem* 287, 15001-15.
- Verschoor, M.L. et al. (2010) *PLoS One* 5, e13565.
- Pognonec, P. et al. (1988) *EMBO J* 7, 977-83.
- 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 **IF-IC:** Immunofluorescence (Immunocytochemistry)
ChIP: Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:** CUT&RUN **C&T:** CUT&Tag

Cross-Reactivity Key

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

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