Revision 7

Store at -20C

#14069

ETS-1 (D8O8A) Rabbit mAb

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

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

Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 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

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 **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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

SimpleChIP is a registered trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.