

Store at
-20°C

#62328

CSDE1 Antibody



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	H M R Mk	Endogenous	89	Rabbit	#O75534	7812

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

CSDE1 Antibody recognizes endogenous levels of total CSDE1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CSDE1 protein. Antibodies are purified by peptide affinity chromatography.

Background

Originally described as the product of an active transcription unit located upstream of the *N-RAS* gene (1), CSDE1 (cold shock domain-containing protein E1) is a highly conserved RNA-binding protein containing five cold-shock domains (2,3). CSDE1 is mostly localized in the cytoplasm where it interacts with distinct protein complexes involved in the post-transcriptional regulation of numerous mRNAs in a dynamic and complex manner (4). CSDE1 plays a role in maintaining the undifferentiated state of human embryonic stem cells (hESCs), and its loss results in accelerated neural differentiation and neurogenesis, partially via post-transcriptional regulation of fatty acid binding protein 7 (*FABP7*) and vimentin (*VIM*) mRNAs (5). In human melanoma, increased CSDE1 protein expression has been shown to modulate the levels of pro-oncogenic factors such as vimentin or RAC1 and tumor suppressors such as PTEN, thus promoting tumor invasion and metastasis (6).

Background References

1. Jeffers, M. et al. (1990) *Nucleic Acids Res* 18, 4891-9.
2. Goroncy, A.K. et al. (2010) *J Struct Funct Genomics* 11, 181-8.
3. Triqueneaux, G. et al. (1999) *Nucleic Acids Res* 27, 1926-34.
4. Mihailovich, M. et al. (2010) *Bioessays* 32, 109-18.
5. Ju Lee, H. et al. (2017) *Nat Commun* 8, 1456.
6. Wurth, L. et al. (2016) *Cancer Cell* 30, 694-707.

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

Cross-Reactivity Key

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

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