

## HDAC11 (D5I8E) Rabbit mAb



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: W	Reactivity:	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q96DB2	Entrez-Gene Id: 79885
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		HDAC11 (D5I8E) Rabbit mAb recognizes endogenous levels of total HDAC11 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val238 of human HDAC11 protein.				
Background		Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing increased accessibility of transcription factors to DNA. The identification of histone acetyltransferases (HATs) and their large multiprotein complexes has yielded important insights into how these enzymes regulate transcription (1,2). HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate nonhistone proteins, suggesting multiple roles for these enzymes (3). In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity (4). Mammalian histone deacetylases can be divided into three classes on the basis of their similarity to various yeast deacetylases (5). Class I proteins (HDACs 1, 2, 3, and 8) are related to the yeast Rpd3-like proteins, those in class II (HDACs 4, 5, 6, 7, 9, and 10) are related to yeast Hda1-like proteins, and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC activity are now being explored as potential therapeutic cancer agents (6,7).				
Background References		<ol> <li>Marmorstein, R. (2001) Cell Mol Life Sci 58, 693-703.</li> <li>Gregory, P.D. et al. (2001) Exp Cell Res 265, 195-202.</li> <li>Liu, Y. et al. (2000) Mol Cell Biol 20, 5540-53.</li> <li>Cress, W.D. and Seto, E. (2000) J Cell Physiol 184, 1-16.</li> <li>Gray, S.G. and Ekström, T.J. (2001) Exp Cell Res 262, 75-83.</li> <li>Thiagalingam, S. et al. (2003) Ann. N.Y. Acad. Sci. 983, 84-100.</li> <li>Vigushin, D.M. and Coombes, R.C. (2004) Curr Cancer Drug Targets 4, 205-18.</li> </ol>				

**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

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