Histone Deacetylase (HDAC) Antibody Sampler Kit

#9928

1 Kit (6 x 20 microliters)

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

## Product Includes

<table>
<thead>
<tr>
<th>Product</th>
<th>Product #</th>
<th>Quantity</th>
<th>Mol. Wt</th>
<th>Isotype/Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDAC1 (10E2) Mouse mAb</td>
<td>5356</td>
<td>20 µl</td>
<td>62 kDa</td>
<td>Mouse IgG1</td>
</tr>
<tr>
<td>HDAC2 (3F3) Mouse mAb</td>
<td>5113</td>
<td>20 µl</td>
<td>60 kDa</td>
<td>Mouse IgG1</td>
</tr>
<tr>
<td>HDAC3 (7G6C5) Mouse mAb</td>
<td>3949</td>
<td>20 µl</td>
<td>49 kDa</td>
<td>Mouse IgG2a</td>
</tr>
<tr>
<td>HDAC4 (D15C3) Rabbit mAb</td>
<td>7628</td>
<td>20 µl</td>
<td>140 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>Phospho-HDAC4 (Ser246)/HDAC5 (Ser259)/HDAC7 (Ser155) (D27B5) Rabbit mAb</td>
<td>3443</td>
<td>20 µl</td>
<td>140, 124 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>HDAC6 (D2E5) Rabbit mAb</td>
<td>7558</td>
<td>20 µl</td>
<td>160 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>Anti-rabbit IgG, HRP-linked Antibody</td>
<td>7074</td>
<td>100 µl</td>
<td></td>
<td>Goat</td>
</tr>
<tr>
<td>Anti-mouse IgG, HRP-linked Antibody</td>
<td>7076</td>
<td>100 µl</td>
<td></td>
<td>Horse</td>
</tr>
</tbody>
</table>

**Description**
The Histone Deacetylase (HDAC) Antibody Sampler Kit provides a fast and economical means to evaluate the endogenous levels of HDACs. The kit contains enough primary and secondary antibodies to perform two Western blot experiments.

**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.

**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**

**Trademarks and Patents**
Cell Signaling Technology is a 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.