#8679 store at -20C

## Pancreatic Marker Antibody Sampler Kit



| Orders:  | 877-616-CELL (2355)<br>orders@cellsignal.com |
|----------|--|
| Support: | 877-678-TECH (8324)                          |
| Web:     | info@cellsignal.com<br>cellsignal.com        |

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Product Includes                                 | Product # | Quantity | Mol. Wt   | Isotype/Source |
|--|-----------|----------|-----------|----------------|
| α-Amylase (D55H10) XP <sup>®</sup> Rabbit mAb    | 3796      | 40 µl    | 58 kDa    | Rabbit IgG     |
| CD31 (PECAM-1) (89C2) Mouse mAb                  | 3528      | 40 µl    | 130 kDa   | Mouse IgG1     |
| Keratin 17/19 (D32D9) XP <sup>®</sup> Rabbit mAb | 3984      | 40 µl    | 48/41 kDa | Rabbit IgG     |
| Pdx1 (D59H3) XP <sup>®</sup> Rabbit mAb          | 5679      | 40 µl    | 42 kDa    | Rabbit IgG     |
| PLA2G1B (D1T4C) Rabbit mAb                       | 14635     | 40 µl    | 16 kDa    | Rabbit IgG     |
| Anti-rabbit IgG, HRP-linked Antibody             | 7074      | 100 µl   |           | Goat           |
| Anti-mouse IgG, HRP-linked Antibody              | 7076      | 100 µl   |           | Horse          |

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

| Description           | The Pancreatic Marker Antibody Sampler Kit provides an economical means to evaluate relevant pancreatic proteins. This kit contains enough primary antibody to perform four western blots per primary.  |
|-----------------------|---|
| Storage               | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than<br>0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.   |
| Background            | The Pancreatic Marker Antibody Sampler Kit contains a variety of antibodies directed against established pancreatic proteins. $\alpha$ -Amylase catalyzes the cleavage of 1, 4- $\alpha$ -D-glucosidic bonds in oligosaccharides and polysaccharides (1). The enzyme is normally produced and secreted in salivary glands (salivary $\alpha$ -amylase or AMY1) and pancreas (pancreatic $\alpha$ -amylase or AMY2A) (1). CD31 (Platelet Endothelial Cell Adhesion Molecule-1: PECAM-1), a member of the Ig superfamily of cell adhesion molecules, is expressed by circulating platelets, monocytes, neutrophils, some T cells, and endothelial cells, and modulates cell adhesion, endothelial cell migration, and angiogenesis (2). Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments (3,4). The pancreatic duodenal homeobox gene-1 (Pdx1) is a transcription factor that contributes to pancreas development, pancreatic β-cell differentiation, and mature β-cell function (5,6). It plays an essential role in the commitment of endoderm to a pancreatic β-cells (7), where it promotes the expression of genes important for β-cell functions, such as insulin, glucokinase, and Glut2 (8-10). Phospholipase A2 (PLA2) is a superfamily of enzymes that hydrolyze glycero-3-phosphocholines and release fatty acids and lysophospholipids (11). PLA2G1B is a member of this superfamily in the 1B group that is expressed most highly in the pancreatic acinar cells (12). Evidence suggests that PLA2G1B plays a role in the absorption and storage of extra energy as fats are metabolized (11,12). |
| Background References | <ol> <li>Tomita, N. et al. (1988) <i>Cancer Res</i> 48, 3292-6.</li> <li>Newman, P.J. (1997) <i>J Clin Invest</i> 99, 3-8.</li> <li>Moll, R. et al. (1982) <i>Cell</i> 31, 11-24.</li> <li>Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13.</li> <li>Kaneto, H. et al. (2008) <i>Endocr J</i> 55, 235-52.</li> <li>Habener, J.F. et al. (2005) <i>Endocrinology</i> 146, 1025-34.</li> <li>Guz, Y. et al. (1995) <i>Development</i> 121, 11-8.</li> <li>Ohlsson, H. et al. (1993) <i>EMBO J</i> 12, 4251-9.</li> <li>Watada, H. et al. (1996) <i>Diabetes</i> 45, 1826-31.</li> <li>Waeber, G. et al. (1996) <i>Mol Endocrinol</i> 10, 1327-34.</li> <li>Labonté, E.D. et al. (2010) <i>FASEB J</i> 24, 2516-24.</li> <li>Cash, J.G. et al. (2011) <i>Int J Obes (Lond)</i> 35, 877-81.</li> </ol>  |

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.