

#3645 Store at -20C

## CDC73 (D410) Antibody



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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB            | H M R Mk    | Endogenous   | 60        | Rabbit  | #Q6P1J9     | 79577           |

|                                  |  |                           |
|----------------------------------|--|---------------------------|
| <b>Product Usage Information</b> | <b>Application</b><br>Western Blotting   | <b>Dilution</b><br>1:1000 |
| <b>Storage</b>                   | 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.   |                           |
| <b>Specificity / Sensitivity</b> | CDC73 (D410) Antibody detects endogenous levels of total CDC73 protein.  |                           |
| <b>Source / Purification</b>     | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp410 of human CDC73. Antibodies are purified by peptide affinity chromatography.   |                           |
| <b>Background</b>                | CDC73 (HPRT2) is a putative tumor suppressor protein thought to bind RNA polymerase II to help inhibit cell cycle progression (1,2). Commonly referred to as parafibromin, CDC73 is expressed in endocrine tissues, kidney, heart, and skeletal muscle and is localized to both nuclear and cytoplasmic compartments (3). CDC73 acts as a Wnt signaling regulator as it binds the carboxy-terminal region of β-catenin (4). Mutations in the corresponding gene cause an endocrine disorder known as hyperparathyroidism 2, which is characterized by hypercalcemia, bone resorption, and the development of jaw tumors (5). |                           |
| <b>Background References</b>     | <ol style="list-style-type: none"> <li>1. Rozenblatt-Rosen, O. et al. (2005) <i>Mol Cell Biol</i> 25, 612-20.</li> <li>2. Shi, X. et al. (1997) <i>Mol Cell Biol</i> 17, 1160-9.</li> <li>3. Woodard, G.E. et al. (2005) <i>Oncogene</i> 24, 1272-6.</li> <li>4. Mosimann, C. et al. (2006) <i>Cell</i> 125, 327-41.</li> <li>5. Bradley, K.J. et al. (2006) <i>Clin Endocrinol (Oxf)</i> 64, 299-306.</li> </ol>  |                           |

|                               |  |
|-------------------------------|--|
| <b>Species Reactivity</b>     | Species reactivity is determined by testing in at least one approved application (e.g., western blot).   |
| <b>Western Blot Buffer</b>    | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.   |
| <b>Applications Key</b>       | <b>WB:</b> Western Blotting  |
| <b>Cross-Reactivity Key</b>   | <b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected   |
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