HCFC1 Antibody (Amino-terminal Antigen) (Amino-terminal Antigen) (#69690) Datasheet Without Images

For Research Use Only. Not For Use In Diagnostic Procedures.

Product Usage Information

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<th>Application</th>
<th>Dilution</th>
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<tr>
<td>Western Blotting</td>
<td>1:1000</td>
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<tr>
<td>Immunoprecipitation</td>
<td>1:50</td>
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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

HCFC1 Antibody (Amino-terminal Antigen) recognizes endogenous levels of total HCFC1 protein. This antibody also recognizes amino-terminal fragments (HCFC1-N) resulting from O-GlcNAc transferase (OGT) cleavage.

Species Reactivity:

Human, Mouse, Rat

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro484 of human HCFC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Host cell factor C1 (HCFC1) was first identified as the host cell factor for human herpes simplex virus infection. HCFC1 and the viral protein VP16 belong to a multi-protein complex that promotes transcription of viral immediate early genes (1). The relatively large HCFC1 protein contains 6 centrally located 26 amino acid repeats that can be O-GlcNAcylated and subjected to O-linked beta-N-acetylglucosamine transferase (OGT) cleavage (2-4). The resulting amino-terminal (HCFC1-N) and carboxy-terminal (HCFC1-C) fragments are non-covalently associated and play important roles in cell cycle regulation. The HCFC1-N peptide facilitates progression through the G1 phase of the cell cycle while HCFC1-C enables proper mitosis and cytokinesis during the M phase (5-7). As HCFC1 plays an important role in neurodevelopment, mutations in the corresponding gene are associated with neurodevelopmental disorders (e.g., intellectual disability) in humans (8).

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HCFC1 Antibody (Amino-terminal Antigen)

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