



**MONOCLONAL ANTIBODY**

*For research use only. Not for clinical diagnosis*

**Catalog No. CEC-051**

**Anti-Prohibitin1 (PHB1) antibody**

**BACKGROUND**

Prohibitin1 (PHB1), which was initially described as an inhibitor of cell proliferation, is a highly conserved protein found in multiple cellular compartments. In the nucleus it interacts with the transcriptional regulators Rb and E2F1 and controls cell proliferation and apoptosis.

<b>Product type</b>	Primary antibody
<b>Immunogen</b>	Synthetic peptide corresponding to the C-terminus region (aa 233 - 246) of human Prohibitin1, DGLIELRKLEAAED.
<b>Host</b>	Rat
<b>Clone number</b>	1G5C1
<b>Isotype</b>	IgG2b, $\kappa$
<b>Source</b>	Culture supernatant
<b>Purification</b>	Ion-exchange chromatography
<b>Form</b>	Liquid
<b>Presentation</b>	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	100 $\mu$ L
<b>Label</b>	Unlabeled
<b>Specificity</b>	Prohibitin1
<b>Cross reactivity</b>	Human, Monkey, Mouse, Rat      Other species have not been tested.
<b>Storage</b>	Store below $-20^{\circ}\text{C}$ (below $-70^{\circ}\text{C}$ for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
<b>Other</b>	-

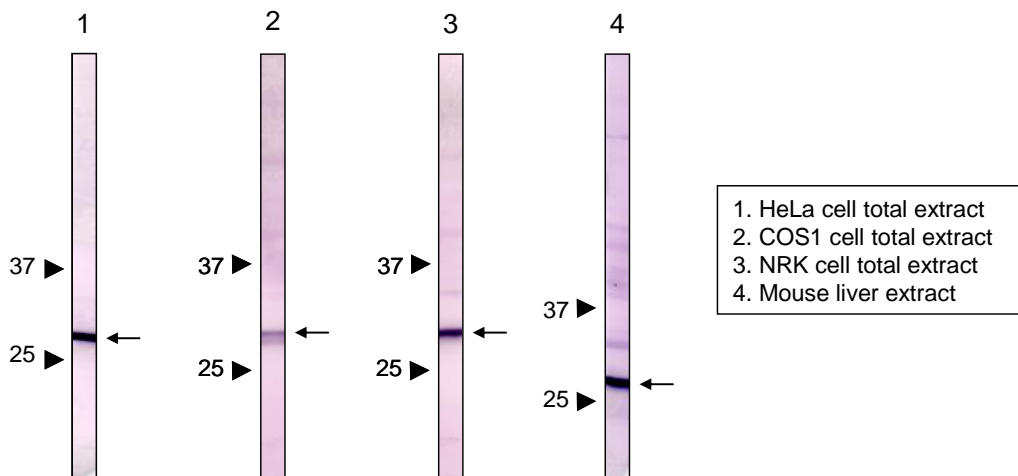
**Application notes**      **Recommended use**  
WB, IHC    Not tested for other applications.

**Recommended dilutions**  
Western blotting, 1/1000 to 1/5000  
Immunohistochemistry, 1/100 to 1/500

Optimal dilutions/concentrations should be determined by the end user.

**References**      1) Schneider et al.,(2010) Prohibitin1 acts as a neural crest specifier in Xenopus development by repressing the transcription factor E2F1. *Development*, 137, 4073-4081.

ANTIBODY CHARACTERIZATION



**Fig.1 Western blot - Prohibitin1 (PHB1) antibody (1G5C1),  
1.HeLa, 2.COS1, 3.NRK cell, 4.Mouse liver total extracts**

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