



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CEC-052

Anti- Prohibitin2 (PHB2) antibody

BACKGROUND

Prohibitin2 acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. This protein functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. It probably involves in regulating mitochondrial respiration activity and in aging.

Product type	Primary antibody
Immunogen	Synthetic peptide corresponding to the C-terminal 11 aa (aa 289 - 299) of human Prohibitin2, RGSDSLIKGKK.
Host	Rat
Clone number	7F8E3
Isotype	IgG2a, κ
Source	Culture supernatant
Purification	Ion-exchange chromatography
Form	Liquid
Presentation	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
Concentration	1 mg/mL
Volume	100 μ L
Label	Unlabeled
Specificity	Prohibitin2
Cross reactivity	Human, Monkey, Mouse, Rat Other species have not been tested.
Storage	Store below -20°C (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
Other	-

Application notes

Recommended use

WB, ICC, IHC Not tested for other applications.

Recommended dilutions

Western blotting, 1/1000 to 1/5000

Immunocytochemistry, 1/100 to 1/500

Immunohistochemistry, 1/100 to 1/500

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

References

1) Sun et al., (2011) CaMK IV phosphorylates prohibitin 2 and regulates prohibitin 2-mediated repression of MEF2 transcription. Cell Signal., 23, 1686-1690.

ANTIBODY CHARACTERIZATION

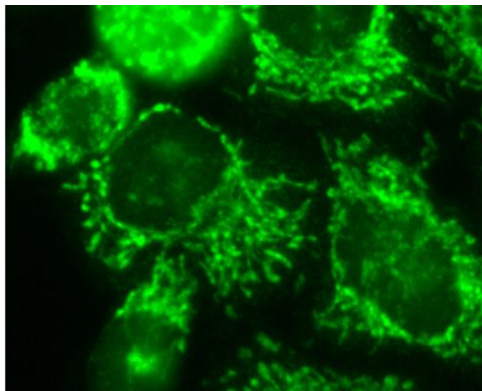
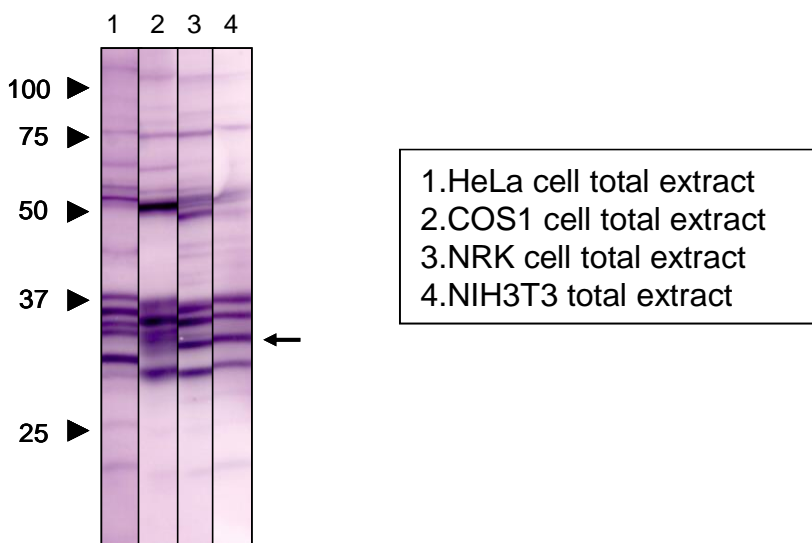


Fig.1 Immunocytochemistry/ Immunofluorescence – Prohibitin2 (PHB2) antibody (7F8E3), HeLa cells



**Fig.2 Western blot - Prohibitin2 (PHB2) antibody (7F8E3),
1. HeLa, 2. COS1, 3. NRK cell, 4. NIH3T3 total extracts**

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