

## ARG40831 anti-Prohibitin antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Prohibitin
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Prohibitin
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence at the C-terminus of Human Prohibitin (240-256aa KLEAAEDIAYQLSRSRN)
Conjugation	Un-conjugated
Alternate Names	HEL-215; PHB1; Prohibitin; HEL-S-54e

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000

**Application Note** IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

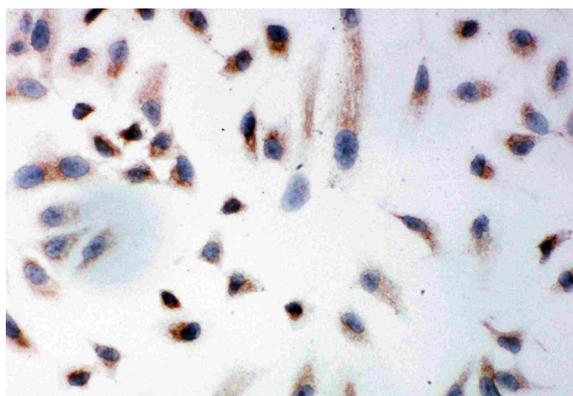
## Bioinformation

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Gene Symbol	PHB
Gene Full Name	prohibitin
Background	This gene is evolutionarily conserved, and its product is proposed to play a role in human cellular senescence and tumor suppression. Antiproliferative activity is reported to be localized to the 3' UTR, which is proposed to function as a trans-acting regulatory RNA. Several pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Function	Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging. [UniProt]
Calculated Mw	30 kDa
Cellular Localization	Mitochondrion inner membrane. [UniProt]

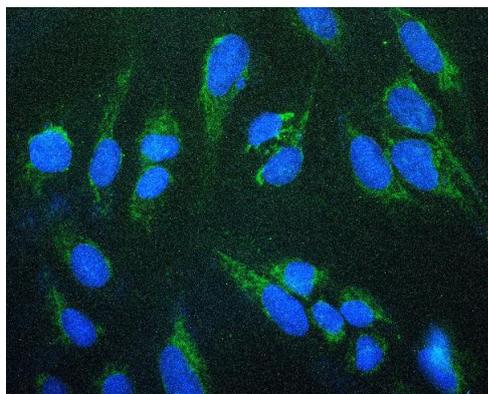
## Images

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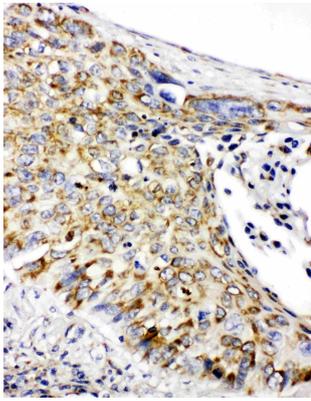
ARG40831 anti-Prohibitin antibody ICC image

Immunocytochemistry: HeLa cells stained with ARG40831 anti-Prohibitin antibody.



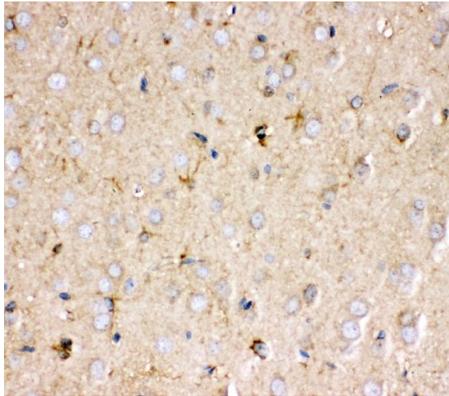
ARG40831 anti-Prohibitin antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG40831 anti-Prohibitin antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



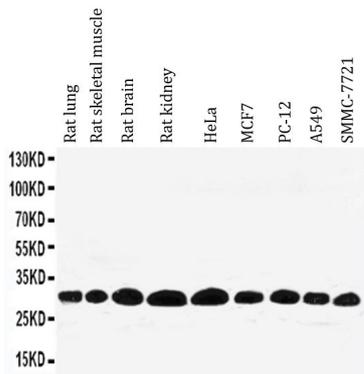
#### ARG40831 anti-Prohibitin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG40831 anti-Prohibitin antibody.



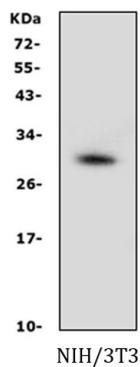
#### ARG40831 anti-Prohibitin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40831 anti-Prohibitin antibody at 1 µg/ml dilution, overnight at 4°C.



#### ARG40831 anti-Prohibitin antibody WB image

Western blot: Rat lung, Rat skeletal muscle, Rat brain, Rat kidney, HeLa, MCF7, PC-12, A549 and SMMC-7721 cell lysates stained with ARG40831 anti-Prohibitin antibody.



#### ARG40831 anti-Prohibitin antibody WB image

Western blot: 50 µg of sample under reducing conditions. NIH/3T3 whole cell lysate stained with ARG40831 anti-Prohibitin antibody at 0.5 µg/ml dilution, overnight at 4°C.