

Prohibitin Monoclonal Antibody

Catalog No :	YM0537
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;FCM;ELISA
Target :	Prohibitin
Gene Name :	PHB
Protein Name :	Prohibitin
Human Gene Id :	5245
Human Swiss Prot No :	P35232
Mouse Gene Id :	18673
Mouse Swiss Prot No :	P67778
Rat Gene Id :	25344
Rat Swiss Prot No :	P67779
Immunogen :	Purified recombinant fragment of human Prohibitin expressed in E. Coli.
Specificity :	Prohibitin Monoclonal Antibody detects endogenous levels of Prohibitin protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Molecularweight : 30kD

P References :
1. Biochem Biophys Res Commun. 2009 Dec 18;390(3):1023-8.
2. J Cell Biochem. 2009 Nov 1;108(4):926-34.

Background : prohibitin(PHB) Homo sapiens 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 : developmental stage:Levels of expression in fibroblasts decrease heterogeneously during cellular aging.,disease:Mutated in sporadic breast cancer.,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.,induction:Expression increases approximately 3-fold upon entry into G1 phase compared with other phases of the cell cycle. Also induced following inhibition of mitochondrial protein synthesis by thiamphenicol.,similarity:Belongs to the prohibitin family.,subunit:Interacts with PHB2.,tissue specificity:Widely expressed in different tissues.,

Subcellular Location : Mitochondrion inner membrane . Nucleus . Cytoplasm . Cell membrane .

Expression : Widely expressed in different tissues.

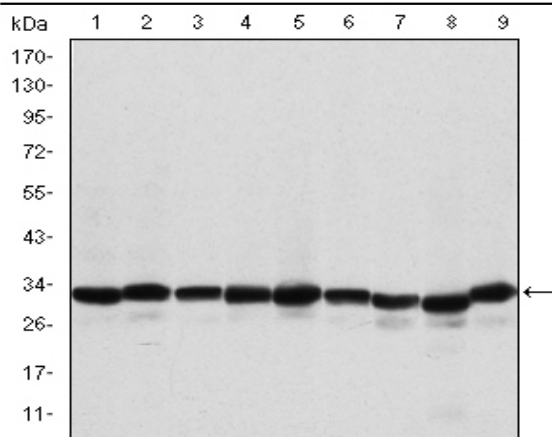
Sort : 13037

No4 : 1

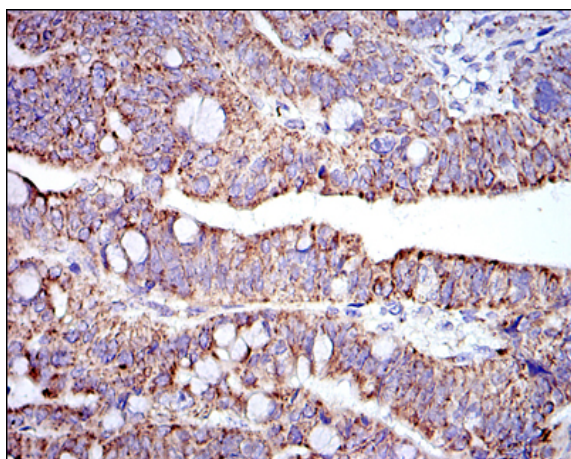
Host : Mouse

Modifications : Unmodified

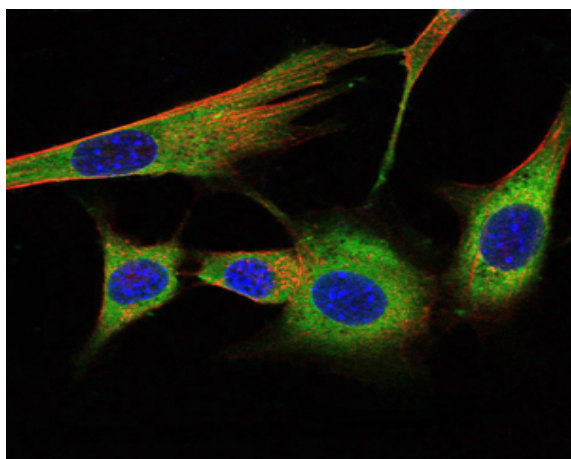
Products Images



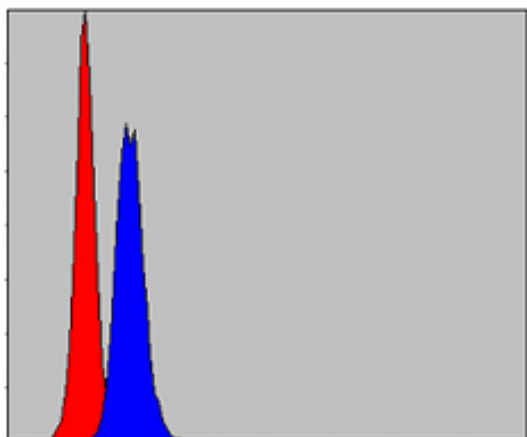
Western Blot analysis using Prohibitin Monoclonal Antibody against A431 (1), MCF-7 (2), Jurkat (3), HeLa (4), HepG2 (5), A549 (6), NIH/3T3 (7), Cos7 (8) and PC-12 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded rectum cancer tissues with DAB staining using Prohibitin Monoclonal Antibody.



Immunofluorescence analysis of NIH/3T3 cells using Prohibitin Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of MCF-7 cells using Prohibitin Monoclonal Antibody (blue) and negative control (red).

