



Prohibitin Monoclonal Antibody

Catalog No	YP-Ab-16564
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	PHB
Protein Name	Prohibitin
Immunogen	Purified recombinant fragment of human Prohibitin expressed in E. Coli.
Specificity	Prohibitin Monoclonal Antibody detects endogenous levels of Prohibitin protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PHB; Prohibitin
Observed Band	
Cell Pathway	Mitochondrion inner membrane . Nucleus . Cytoplasm . Cell membrane .
Tissue Specificity	Widely expressed in different tissues.
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.,
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],

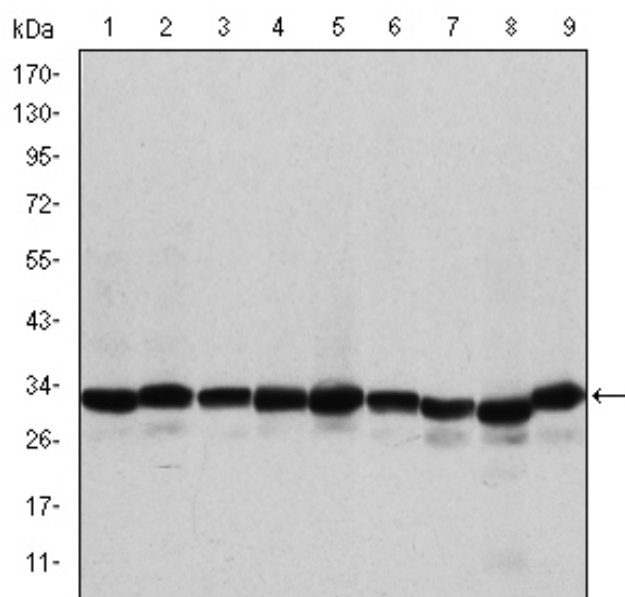
matters needing attention

Avoid repeated freezing and thawing!

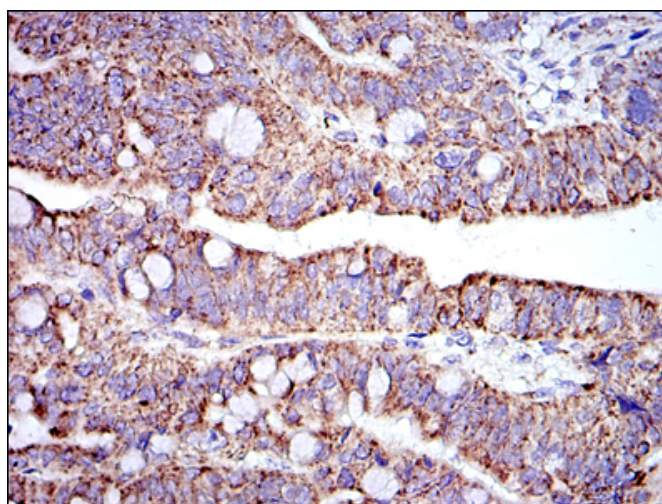
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

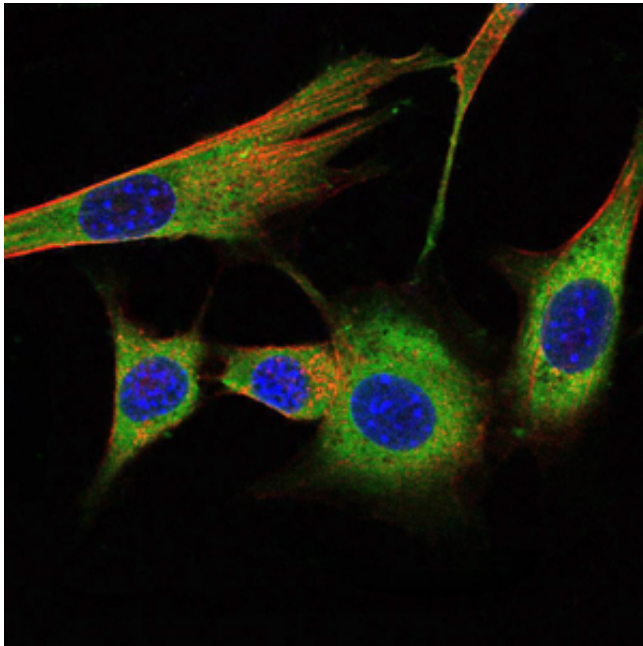
Products Images



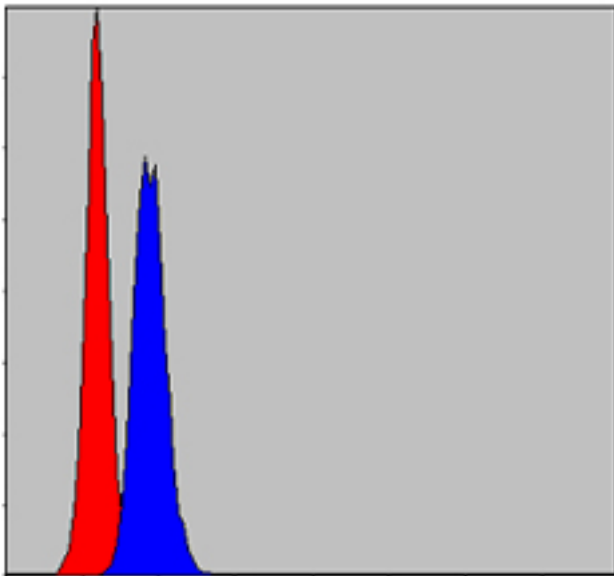
Western Blot analysis using Prohibitin Monoclonal Antibody against A431 (1), MCF-7 (2), Jurkat (3), HeLa (4), HepG2 (5), A549 (6), NIH/3T3 (7), Cos7 (8) and PC-12 (9) cell lysate.



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).

