Prohibitin monoclonal antibody

Catalog: MB66972 Host: Mouse Reactivity: Human, Mouse, Rat

BackGround:

The prohibitins, called PHB1 and PHB2, are highly conserved proteins that are present in multiple compartments in eukaryotic cells. PHB1 is 30kDa tumor suppressor protein involved in cell cycle control . PHB1 has been found in mitochondria, the nucleus and the plasma membrane, as well as extracellularly in circulation . In mitochondria prohibitins mainly exist as membrane-bound ring complexes and function as chaperones maintaining mitochondrial protein stability during protein synthesis and transportation . In the nucleus prohibitins interact with transcription factors such as Rb and p53 to regulate target gene transcription . Extracellular prohibitin can bind and activate C3 to enhance complement activation .

Product:

Mouse IgG2b kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 32 kDa

Swiss-Prot:

P35232

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

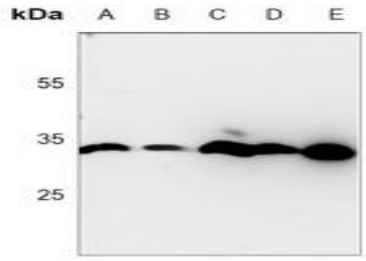
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

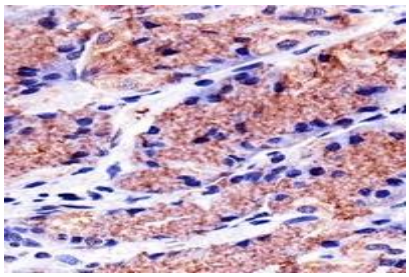
Specificity:

Recognizes endogenous levels of Prohibitin protein.

DATA:



Western blot analysis of Prohibitin expression in 293 (A), MCF7 (B), HepG2 (C), NIH3T3 (D), rat liver (E) whole cell lysates.



Immunohistochemical analysis of Prohibitin staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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