

Product Datasheet

Prohibitin Antibody



Catalog No: CY5519

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC ICC IP FC

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Information

UniProt ID: P35232

All Names: PHB; PHB1; HEL 215; Epididymis secretory sperm binding protein Li 54e;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 30 kDa

Application

WB: 1:500~1:2000

IHC: 1:50~1:200

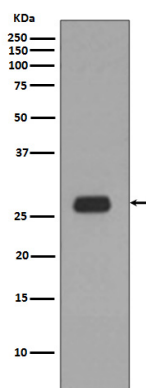
ICC: 1:50~1:200

IP: 1:30

FC: 1:30

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.



Western blot analysis of Prohibitin expression in Ramos cell lysate.

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