

## PHB

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:** 30kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human PHB

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bh

**Synonym:**

PHB; PHB1

**Catalog #:** A0156

**Antibody Type:**

Monoclonal Antibody

**Species:** Mouse

**Gene ID:** 5245

**Isotype:** IgG

**Swiss Prot:** P35232

**Purity:** Affinity purification

For research use only.

**Background:**

The prohibitins, called PHB and PHB2, are highly conserved proteins that are present in multiple compartments in eukaryotic cells. PHB is 30kDa tumor suppressor protein involved in cell cycle control (1). PHB has been found in mitochondria, the nucleus and the plasma membrane, as well as extracellularly in circulation (2). In mitochondria prohibitins mainly exist as membrane-bound ring complexes and function as chaperones maintaining mitochondrial protein stability during protein synthesis and transportation (3,4). In the nucleus prohibitins interact with transcription factors such as Rb and p53 to regulate target gene transcription (2,5). Extracellular prohibitin can bind and activate C3 to enhance complement activation (6).

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