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# **Recombinant PHB2 Monoclonal Antibody**

catalog number: AN301627L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Reactivity Human;Rat;Mouse

**Immunogen** Recombinant human PHB2 fragment

Host Rabbit Isotype lgG, κ Clone A330

**Purification** Protein Apurified

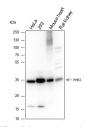
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

#### **Applications Recommended Dilution**

1:2000-1:10000 **WB** 

IF 1:50

#### Data



Western Blot with PHB2 Monoclonal Antibody at dilution of 1:10000. Lane 1: HeLa, Lane 2: 293, Lane 3: Mouse heart, Lane 4: Rat kidney

Immunofluorescent analysis of (100% Ice-cold methanol)

fixed HeLa cells using anti-PHB2 Monoclonal Antibody at dilution of 1:50.

Observed-MW:33 kDa Calculated-MW:33 kDa

# **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

### **Background**

Protein with pleiotropic attributes mediated in a cell-compartment- and tissue-specific manner, which include the plasma membrane-associated cell signaling functions, mitochondrial chaperone, and transcriptional co-regulator of transcription factors and sex steroid hormones in the nucleus. In the mitochondria, together with PHB, forms large ring complexes (prohibitin complexes) in the inner mitochondrial membrane (IMM) and functions as chaperone protein that stabilizes mitochondrial respiratory enzymes and maintains mitochondrial integrity in the IMM, which is required for mitochondrial morphogenesis, neuronal survival, and normal lifespan. The prohibitin complex, with DNAJC19, regulates cardiolipin remodeling and the protein turnover of OMA1 in a cardiolipin-binding manner. Also regulates cytochrome-c oxidase assembly (COX) and mitochondrial respiration. Binding to sphingoid 1-phosphate (SPP) modulates its regulator activity. Has a key role of mitophagy receptor involved in targeting mitochondria for autophagic degradation.

# For Research Use Only

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