

Recombinant PHB2 Monoclonal Antibody

catalog number: **AN301627L**

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

Description

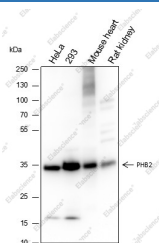
Reactivity	Human;Mouse;Rat
Immunogen	A synthetic peptide of human REA
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111250
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:2000-1:20000
IHC-P	1:1000-1:5000
ICC/IF	1:50
FCM	1:50-1:100

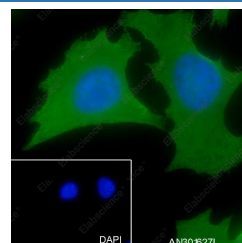
Data



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

Observed-MW:33 kDa

Calculated-MW:33 kDa



Immunofluorescent analysis of (100% Ice-cold methanol) fixed HeLa cells using anti-PHB2 Monoclonal Antibody at dilution of 1:50.

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.

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Rev. V1.3

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