

## Product datasheet for **TA326760**

### Prohibitin (PHB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human PHB
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30 kDa
Gene Name:	prohibitin
Database Link:	<a href="#">NP_002625</a> <a href="#">Entrez Gene 18673 Mouse</a> <a href="#">Entrez Gene 25344 Rat</a> <a href="#">Entrez Gene 5245 Human</a> <a href="#">P35232</a>

**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.



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**Synonyms:** HEL-215; HEL-S-54e; PHB1

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors