

Product datasheet for **TA322982**

Prohibitin (PHB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 200 amino acids of human prohibitin
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen 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:	NP_002625 Entrez Gene 18673 MouseEntrez Gene 25344 RatEntrez Gene 5245 Human P35232

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.

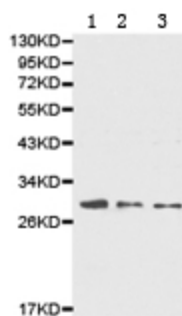
Synonyms: HEL-215; HEL-S-54e; PHB1



[View online »](#)

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

Product images:



Predicted band size: 30 kDa. Positive control: A431, HeLa and Jurkat cell lysate. Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lane 1: A431 cell lysate Lane 2: HeLa cell lysate Lane 3: Jurkat cell lysate Lysates: 40 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)