

PHB Antibody

Catalog No: #32002



Overview

Product Name	PHB Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Immunogen Type	Recombinant Protein
Target Name	PHB
Alternative Names	PHB; PHB1;

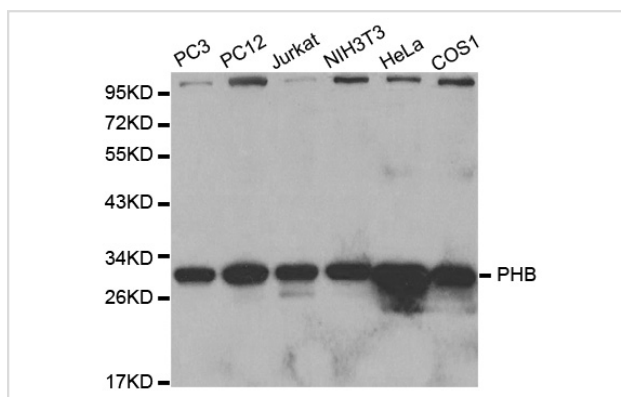
Application Details

Western blotting: 1:500 - 1:2000

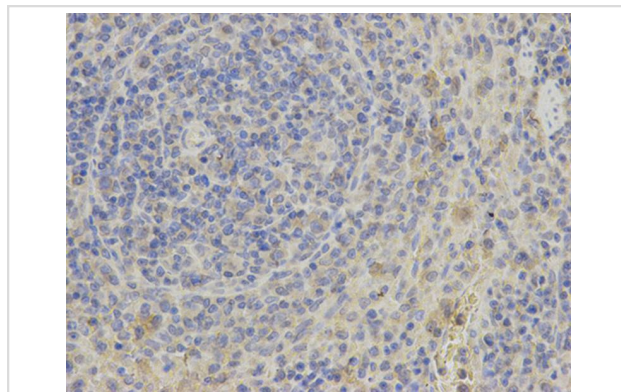
Immunohistochemistry: 1:50 - 1:200

Immunofluorescence: 1:50 - 1:200

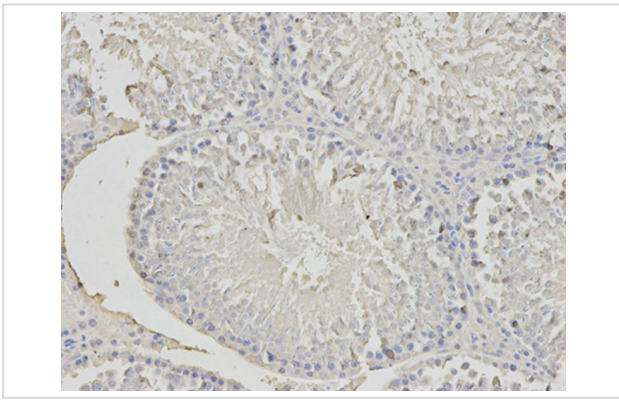
Images



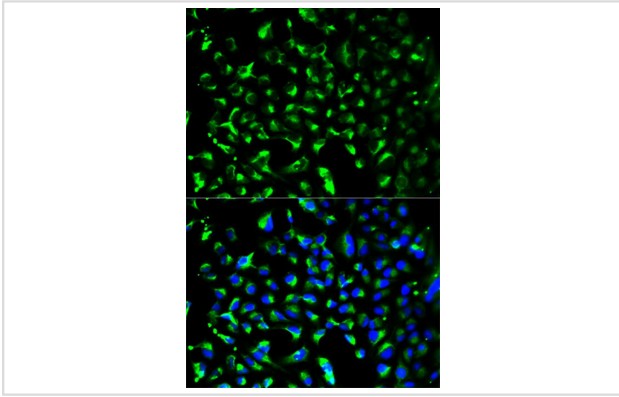
Western blot analysis of extracts of various cell lines, using PHB antibody.



Immunohistochemical analysis of paraffin-embedded rat spleen using PHB antibody at dilution of 1:200 (400x lens).



Immunohistochemical analysis of paraffin-embedded rat testis using PHB antibody at dilution of 1:200 (200x lens).



Immunofluorescence analysis of HeLa cell using PHB antibody. Blue: DAPI for nuclear staining.

Descriptions

Immunogen	Recombinant protein of human PHB.
Specificity	The antibody detects endogenous level of total PHB protein.
Purification	Antibodies were purified by affinity purification using immunogen.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C
Predicted MW	30KD
Accession NO.	Swiss-Prot:P35232NCBI Gene ID:5245

Related Information

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 (1). PHB1 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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.