

Datasheet for ABIN7599170
anti-Prohibitin antibody (AA 1-257)



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Overview

Quantity:	100 µg
Target:	Prohibitin (PHB)
Binding Specificity:	AA 1-257
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Prohibitin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Prohibitin/PHB Antibody Picoband®
Immunogen:	E.coli-derived human Prohibitin/PHB recombinant protein (Position: M1-I257).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Prohibitin/PHB Antibody Picoband® (ABIN7599170). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Prohibitin (PHB)
Alternative Name:	PHB (PHB Products)
Background:	Synonyms: Hepatocyte growth factor-regulated tyrosine kinase substrate, Hrs, Protein pp110, HGS, HRS Tissue Specificity: Ubiquitous expression in adult and fetal tissues with higher expression in testis and peripheral blood leukocytes. Background: PHB (Prohibitin), also known as PHB1, is a protein that in humans is encoded by the PHB gene. White et al. (1991) mapped the PHB gene to chromosome 17 by analysis of human-mouse somatic cell hybrid cell lines using a genomic fragment of human prohibitin DNA isolated from a library using the rat prohibitin cDNA clone. By in situ hybridization, they localized the gene to 17q21. Sato et al. (1992) isolated the human homolog of the rat prohibitin gene and mapped it to 17q12-q21 by in situ hybridization. Proliferation of tumor cells depends on new blood vessel formation (angiogenesis) that accompanies malignant progression. Anticancer therapies using angiogenesis inhibitors or cytotoxic agents targeted to the vasculature of tumors have been evaluated in clinical trials. Although white fat is a nonmalignant tissue, it has the capability to quickly proliferate and expand. Furthermore, it is highly vascularized. Rupnick et al. (2002) showed that nonspecific angiogenesis inhibitors can prevent the development of obesity of mice.
Molecular Weight:	28-30 kDa
Gene ID:	5245
UniProt:	P35232
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human, Rat ELISA, 0.1-0.5 µg/mL, - 1. Rupnick, M. A., Panigrahy, D., Zhang, C.-Y., Dallabrida, S. M., Lowell, B. B., Langer, R., Folkman, M. J. Adipose tissue mass can be regulated through the vasculature. Proc. Nat. Acad. Sci. 99: 10730-10735, 2002. 2. Sato, T., Saito, H., Swensen, J., Olifant, A., Wood, C., Danner, D., Sakamoto, T., Takita, K., Kasumi, F., Miki, Y., Skolnick, M., Nakamura, Y. The human prohibitin
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Application Details

gene located on chromosome 17q21 is mutated in sporadic breast cancer. Cancer Res. 52: 1643-1646, 1992. 3. White, J. J., Ledbetter, D. H., Eddy, R. L., Jr., Shows, T. B., Stewart, D. A., Nuell, M. J., Friedman, V., Wood, C. M., Owens, G. A., McClung, J. K., Danner, D. B., Morton, C. C. Assignment of the human prohibitin gene (PHB) to chromosome 17 and identification of a DNA polymorphism. Genomics 11: 228-230, 1991. Note: Erratum: Genomics 11: 732 only, 1991.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.