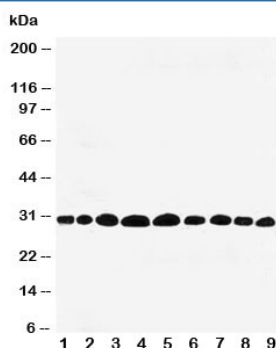


## Prohibitin Antibody (R31032)

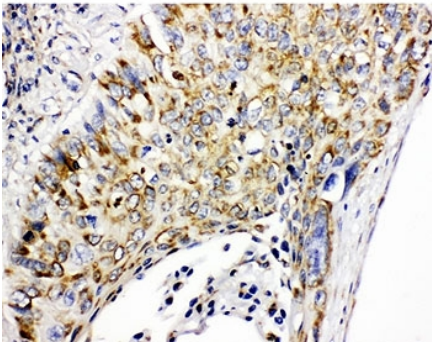
| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| R31032      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

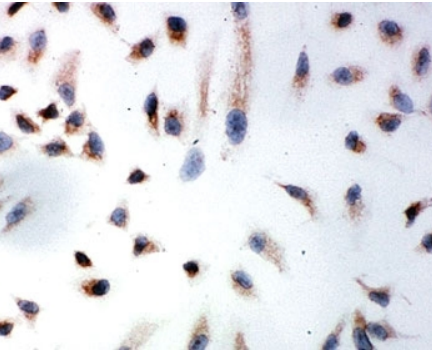
|                           |  |
|---------------------------|--|
| <b>Availability</b>       | 1-3 business days  |
| <b>Species Reactivity</b> | Human, Mouse, Rat  |
| <b>Format</b>             | Antigen affinity purified  |
| <b>Clonality</b>          | Polyclonal (rabbit origin)   |
| <b>Isotype</b>            | Rabbit IgG   |
| <b>Purity</b>             | Antigen affinity   |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal                 |
| <b>UniProt</b>            | P35232   |
| <b>Applications</b>       | Western blot : 0.5-1ug/ml<br>IHC (FFPE) : 0.5-1ug/ml<br>Immunocytochemistry : 0.5-1ug/ml |
| <b>Limitations</b>        | This Prohibitin antibody is available for research use only.                             |



Western blot testing of Prohibitin antibody and rat samples 1: lung; 2: skeletal muscle; 3: brain; 4: kidney; and 5: human HeLa; 6: (h) MCF-7; 7: (r) PC-12; 8: (h) A549; 9: (h) SMMC-7721 cell lysate. Expected/observed size ~30KD



IHC-P: Prohibitin antibody testing of human lung cancer tissue



ICC testing of Prohibitin antibody and HeLa cells

## Description

Prohibitin, also known as PHB, is a protein that in humans is encoded by the PHB gene. White et al.(1991) mapped the 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 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. Anti-cancer 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.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Prohibitin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human PHB1 (KLEAAEDIA YQLSR SRN) was used as the immunogen for this Prohibitin antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the Prohibitin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

