

## Prohibitin 2 (PHB2) Monoclonal Antibody

CAB9144

### Description

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This Prohibitin 2 (PHB2) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CAB9144
<b>Contents:</b>	20 $\mu$ L, 100 $\mu$ L Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Monoclonal Antibody
<b>Synonyms:</b>	BAP, REA, p22, hBAP, Bap37, BCAP37, PNAS-141, Prohibitin 2 (PHB2)
<b>Clone:</b>	ARC1449
<b>Applications:</b>	<b>WB</b> <b>IHC-P</b> <b>IF/ICC</b> <b>IP</b> <b>ELISA</b>
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human, Mouse, Rat

### Antibody Data

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<b>Gene ID:</b>	11331
<b>Uniprot:</b>	AB_2863669
<b>Host Species:</b>	Rabbit
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	33kDa
<b>Calculated MW:</b>	33kDa

## Preparation & Storage

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

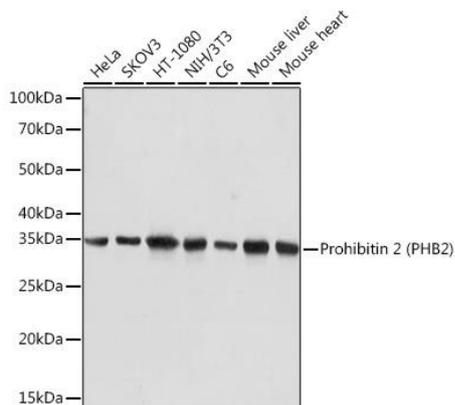
**Positive Sample:** HeLa, SKOV3, HT-1080, NIH/3T3, C6, Mouse liver, Mouse heart

**Recommended Dilutions:**

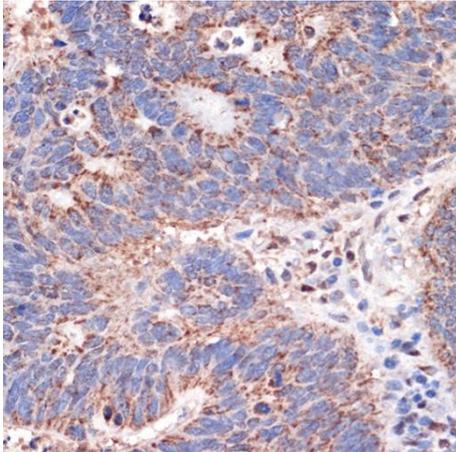
<b>WB</b>	1:5000 - 1:30000
<b>IHC-P</b>	1:100 - 1:1000
<b>IF/ICC</b>	1:50 - 1:200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

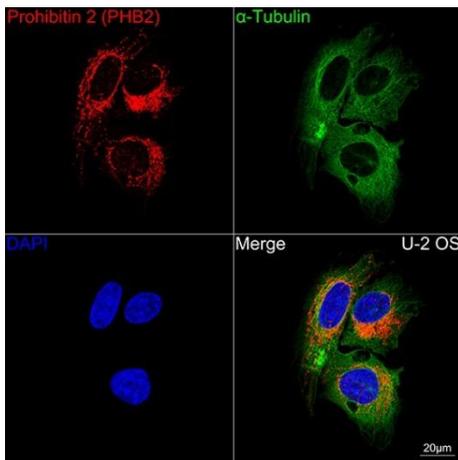
## Validation Data



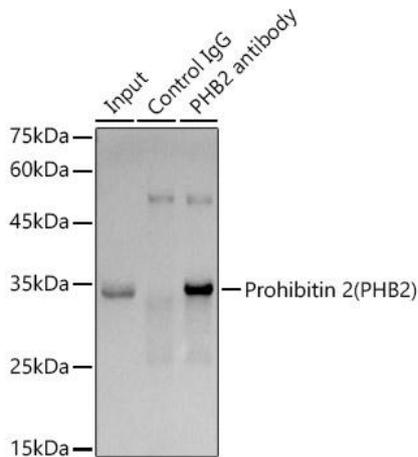
Western blot analysis of various lysates using Prohibitin 2 (Prohibitin 2 ) Rabbit mAb (CAB9144) at 1:5000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Prohibitin 2 (Prohibitin 2 ) Rabbit mAb (CAB9144) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Confocal imaging of U-2 OS cells using Prohibitin 2 Rabbit mAb (CAB9144, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo<sup>®</sup> 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation analysis of 300  $\mu$ g extracts of SKOV3 cells using 3  $\mu$ g Prohibitin 2 antibody (CAB9144). Western blot was performed from the immunoprecipitate using Prohibitin 2 antibody (CAB9144) at a dilution of 1:1000.