

## Anti-REA/PHB2 Antibody

Catalog Number: PA1951

### About PHB2

PHB2 (Prohibitin 2), also called Repressor of Estrogen Receptor Activity (REA), is a protein that in humans is encoded by the PHB2 gene. The International Radiation Hybrid Mapping Consortium mapped the PHB2 gene to chromosome 12. Montano et al. (1999) showed that REA enhanced the potency of a dominant-negative ER-alpha mutant and antiestrogens as suppressors of ER-alpha activity in Chinese hamster ovary cells. When coexpressed with wildtype ER-alpha or ER-beta (ESR2), REA suppressed activation of a [reporter gene](#) in a dose-dependent manner. REA had no effect on reporter activity in the absence of liganded ER, and it had no effect on the transcriptional activities of other hormone receptors. Mutation analysis showed that an N-terminal domain and a central domain of REA were required for its repressor activity.

### Overview

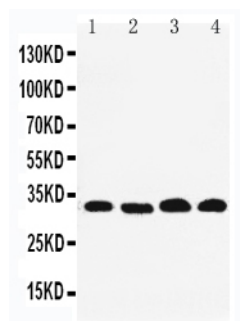
|                      |                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-REA/PHB2 Antibody                                                                                                                                                                                |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                     |
| Description          | Boster Bio Anti-REA/PHB2 Antibody catalog # PA1951. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.                                                                 |
| Application          | IHC, ICC, WB                                                                                                                                                                                          |
| Clonality            | Polyclonal                                                                                                                                                                                            |
| Formulation          | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                                |
| Storage Instructions | 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. |
| Host                 | Rabbit                                                                                                                                                                                                |
| Uniprot ID           | Q99623                                                                                                                                                                                                |

### Technical Details

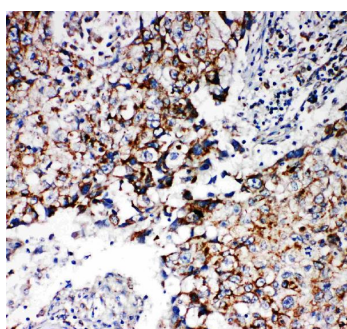
|                               |                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence in the middle region of human REA, identical to the related rat and mouse sequences.                                                     |
| Predicted Reactive Species    | Hamster                                                                                                                                                                                  |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC. |
| Cross Reactivity              | No cross-reactivity with other proteins                                                                                                                                                  |
| Isotype                       | Rabbit IgG                                                                                                                                                                               |
| Form                          | Lyophilized                                                                                                                                                                              |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunocytochemistry , 0.5-1ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p> |

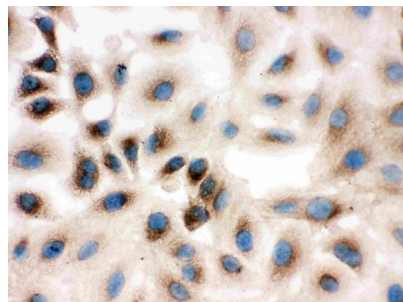
## Anti-REA/PHB2 Antibody (PA1951) Images



Anti-REA antibody, PA1951, Western blotting  
Lane 1: PANC Cell Lysate  
Lane 2: COLO320 Cell Lysate  
Lane 3: U87Cell Lysate  
Lane 4: HEPA Cell Lysate



Anti-REA antibody, PA1951, IHC(P)  
IHC(P): Human Lung Cancer Tissue



Anti-REA antibody, PA1951, ICC  
ICC: A549 Cell

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