

Rabbit Anti-PHB2 antibody

SL10283R

Product Name PHB2

Chinese Name B 细胞受体相关蛋白抗体

Alias PHB2_HUMAN; Prohibitin-2; B-cell receptor-associated protein BAP37;
D-prohibitin; Repressor of estrogen receptor activity; BAP; REA; p22; hBAP; Bap37;
BCAP37; PNAS-141;

**Immunogen
Species** Rabbit

Clonality Polyclonal

React Species Human Mouse Rat(predicted:Cow Horse Sheep)
WB=1:500-2000,ICC/IF=1:100-500,Flow-Cyt=2ug/Test

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

**Theoretical
molecular
weight** 33kDa

**Cellular
localization** The nucleus cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human PHB2: 281-299/299

Lsotype IgG

Purification affinity purified by Protein A

**Buffer
Solution** Human,Mouse,Rat(predicted:Cow,Horse,Sheep)1M TBS(pH7.4) with 1% BSA,
Human,Mouse,Rat(predicted:Cow,Horse,Sheep)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.

PubMed [PubMed](#)

**Product
Detail** Enables several functions, including protein C-terminus binding activity; protein N-terminus
binding activity; and protein dimerization activity. Involved in several processes, including
defense response to virus; positive regulation of cell cycle phase transition; and regulation of
transcription, DNA-templated. Located in several cellular components, including cell surface;

mitochondrial membrane; and nuclear matrix. Part of mitochondrial prohibitin complex. [provided by Alliance of Genome Resources, Apr 2022]

Function:

Acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. Functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. Competes with NCOA1 for modulation of ER transcriptional activity. Probably involved in regulating mitochondrial respiration activity and in aging.

Subunit:

Interacts with PHB, ESR1, HDAC1 and HDAC5. Interacts with ZNF703.

Subcellular Location:

Mitochondrion inner membrane. Cytoplasm. Nucleus. Also cytoplasmic and nuclear.

Similarity:

Belongs to the prohibitin family.

SWISS:

Q99623

Gene ID:

11331

Database links:

[Entrez Gene: 11331](#) Human

[Entrez Gene: 12034](#) Mouse

[Entrez Gene: 114766](#) Rat

[Omim: 610704](#) Human

[SwissProt: Q99623](#) Human

[SwissProt: O35129](#) Mouse

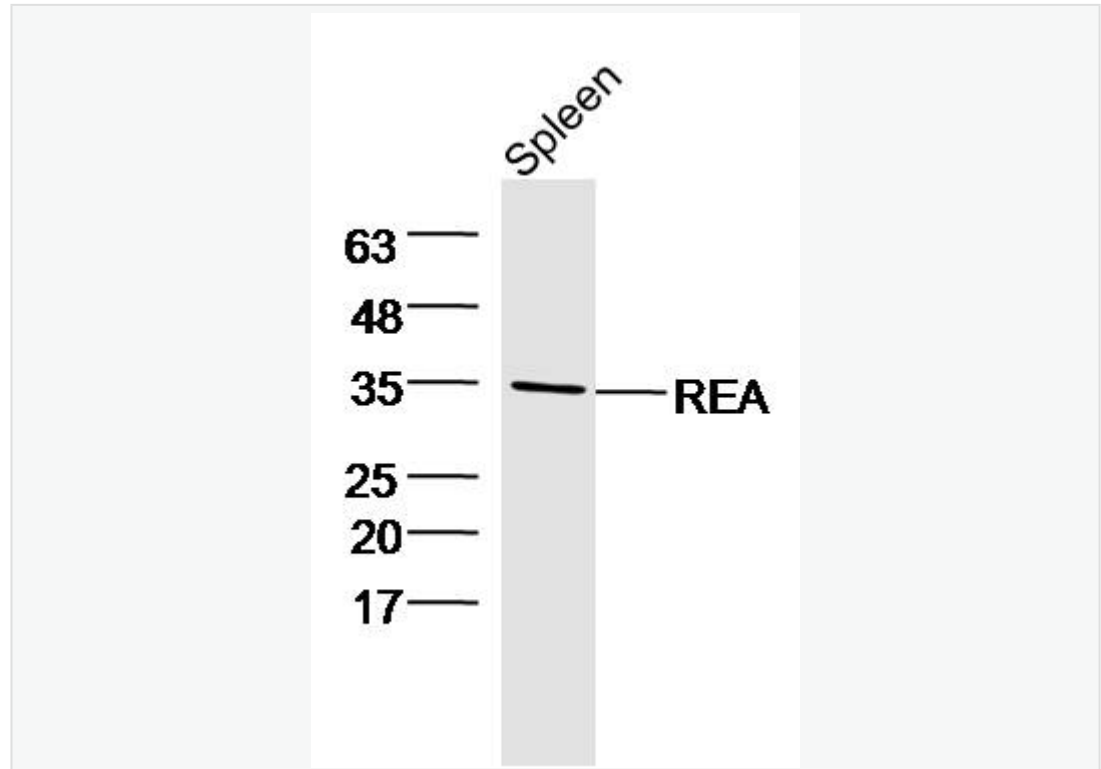
[SwissProt: Q5XIH7](#) Rat

[Unigene: 504620](#) Human

[Unigene: 36241](#) Mouse

[Unigene: 64535](#) Rat

Product
Picture



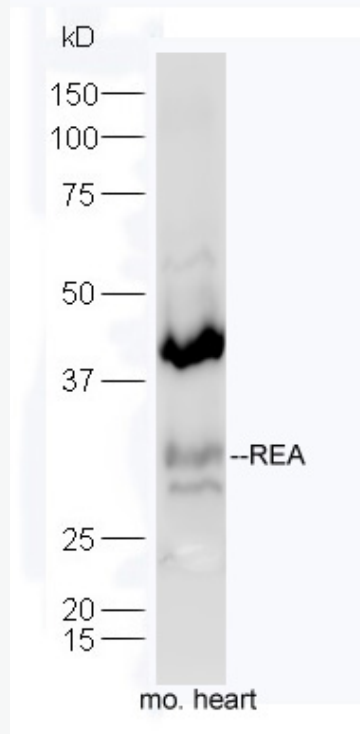
Protein: spleen(mouse) lysate at 40ug;

Primary: rabbit Anti-REA (SL10283R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000;

Predicted band size: 33 kD

Observed band size: 35 kD



Sample:

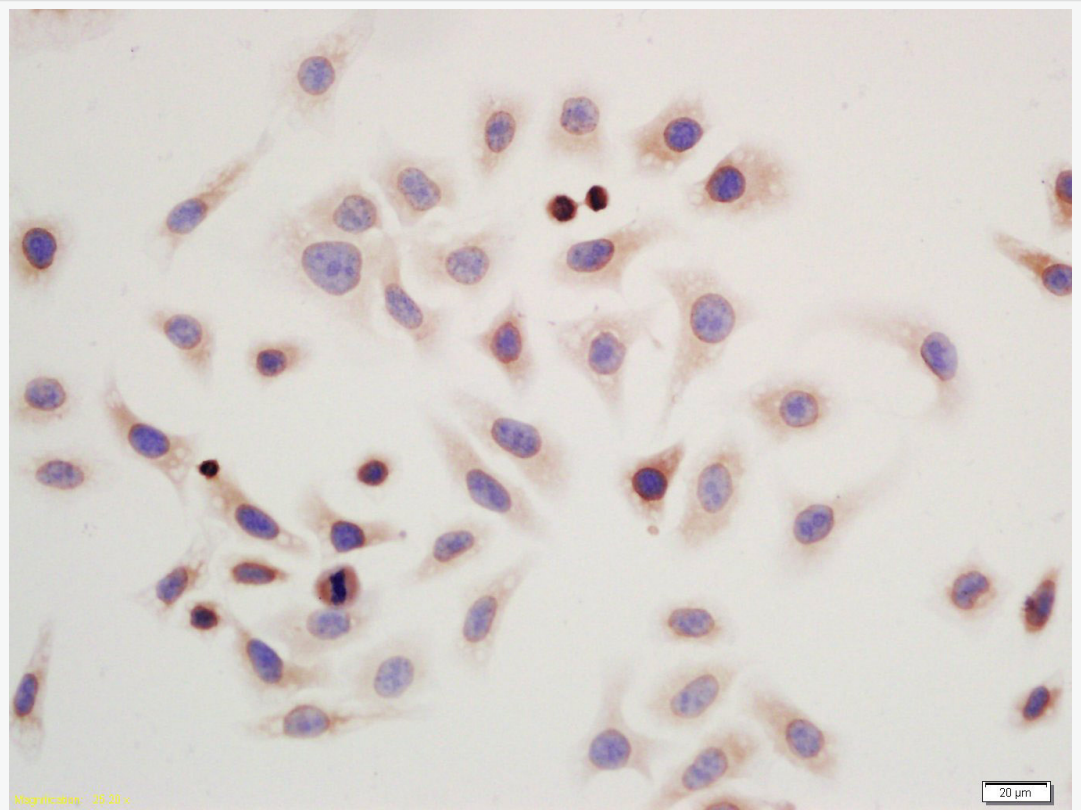
heart (Mouse) Lysate at 40 ug

Primary: Anti-REA (SL10283R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD



Tissue/cell: colonic epithelial cells;

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-REA Polyclonal Antibody, Unconjugated(SL10283R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining