

Anti-REA Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

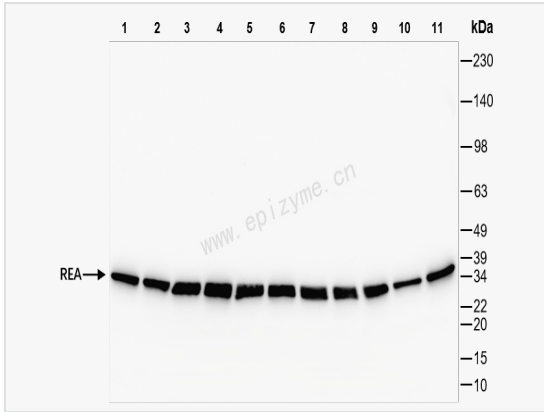
Catalog # R012943

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	55K24K18
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human REA
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-REA Rabbit mAb [55K24K18] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	BAP; REA; PHB2; Prohibitin-2; B-cell receptor-associated protein BAP37; D-prohibitin; Repressor of estrogen receptor activity.
Calculated MW	Calculated MW: 33 kDa; Observed MW: 33 kDa
Uniprot ID	Q99623
Gene ID	11331
Background	Acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases (By similarity). 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.
Cellular Location	Mitochondrion inner membrane.Cytoplasm.Nucleus.Cell membrane.Localizes within both nucleus and cytoplasm in proliferative primary myoblasts and mostly within the nucleus of differentiated primary myoblasts.Isoform 1.Mitochondrion inner membrane.Isoform 2.Mitochondrion inner membrane.
Tissue Location	Expressed in myoblasts.



Western Blot - Anti-REA Rabbit mAb [55K24K18]

All lanes: R012943 at 1:5,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 8: Mouse heart whole tissue lysates

Lane 9: Mouse liver whole tissue lysates

Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 11: Rat brain whole tissue lysates

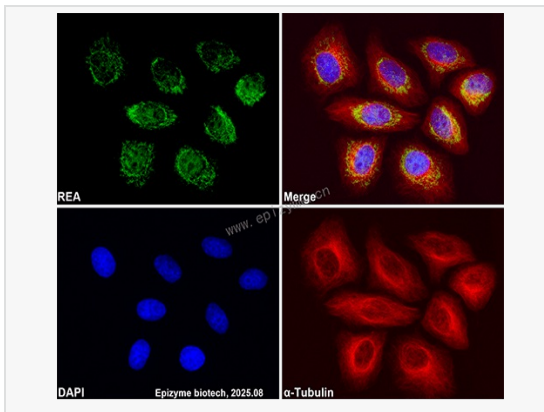
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-REA Rabbit mAb [55K24K18]

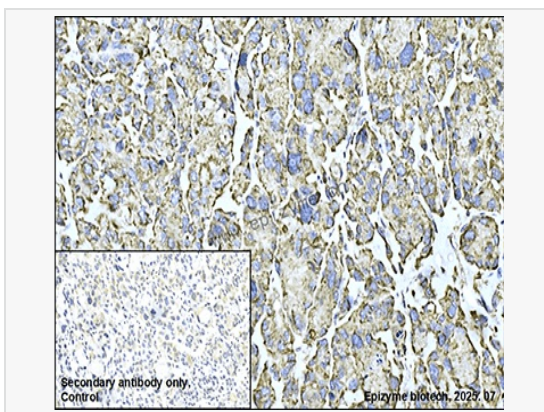
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012943 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-REA Rabbit mAb [55K24K18]

Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

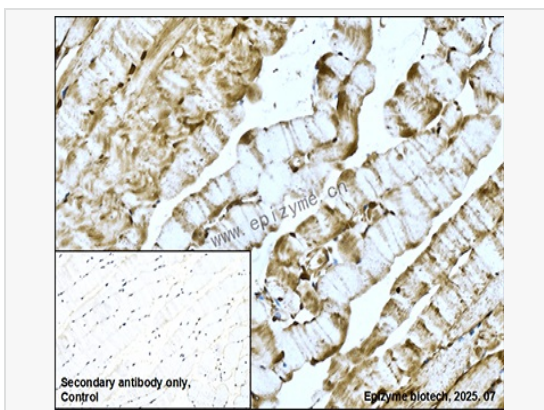
Primary antibody: R012943 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-REA Rabbit mAb [55K24K18]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse muscle tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012943 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.

