

Anti-Phospho-AKT (Ser473) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

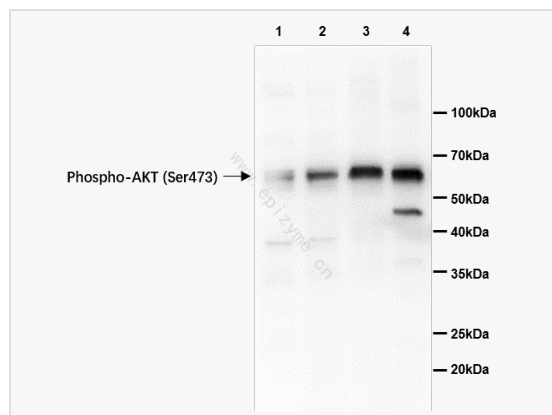
Catalog # R011470

Product Information

Application	IHC-P/IF (Tissue-P), ELISA, WB
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	81M88K84
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser473 of human AKT1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% 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-Phospho-AKT (Ser473) antibody [81M88K84] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AKT1, PKB, RAC, RAC-alpha serine/threonine-protein kinase, Protein kinase B, PKB, Protein kinase B alpha, PKB alpha, Proto-oncogene c-Akt, RAC-PK-alpha.
Calculated MW	Calculated MW: 56 kDa; Observed MW: 55-60 kDa
Uniprot ID	P31749
Gene ID	207
Background	Akt, also referred to as PKB or Rac, plays a critical role in controlling survival and apoptosis. This protein kinase is activated by insulin and various growth and survival factors to function in a wortmannin-sensitive pathway involving PI3 kinase. Akt is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 and by phosphorylation within the carboxy terminus at Ser473.



Western Blot - Anti-Phospho-AKT (Ser473) Rabbit mAb [81M88K84]

All lanes: R011470 at 1:1,000 dilution

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

Lane 2: MCF7 (human breast cancer epithelial cell) whole cell lysates

Lane 3: MSC (human mesenchymal stem cell) whole cell lysates

Lane 4: C2C12 (mouse myoblasts epithelial cell) whole cell lysates

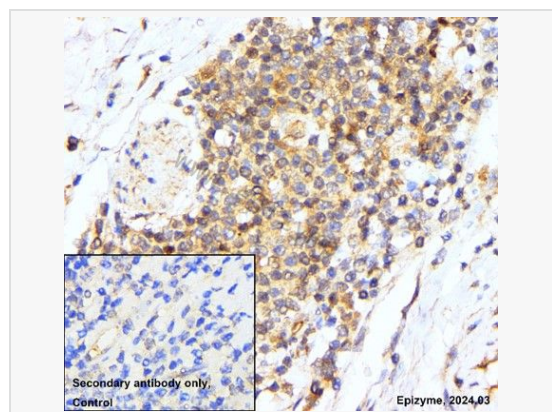
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 56 kDa

Observed band size: 55-60 kDa

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



Immunohistochemistry - Anti-Phospho-AKT (Ser473) Rabbit mAb [81M88K84]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011470 at 1:200 dilution

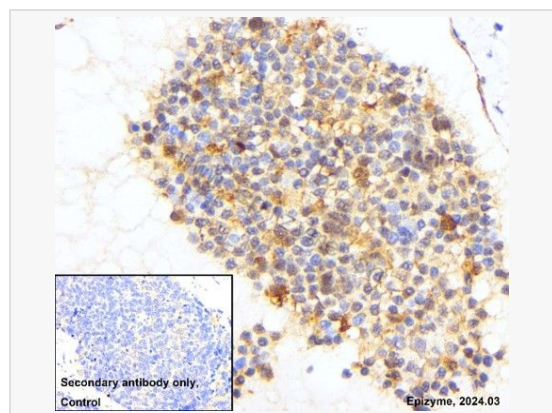
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-Phospho-AKT (Ser473) Rabbit mAb [81M88K84]

Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011470 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.