Anti-Phospho-SHC (Tyr427) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015472

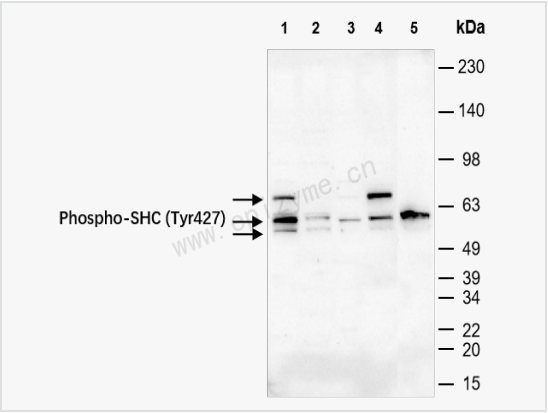
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	69G89Q59
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Tyr427 of human SHC
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-SHC (Tyr427) Rabbit mAb [69G89Q59] is for research use only and not for use in diagnostic or therapeutic procedures.

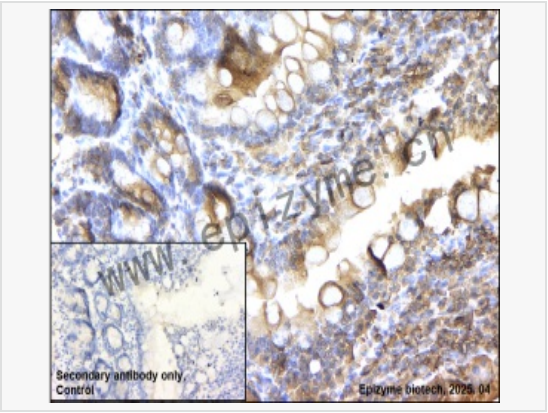
Protein Information

Synonyms	FLJ26504; p66; p66SHC; SH2 domain protein C1; SHC (Src homology 2 domain containing) transforming protein 1; SHC 1; SHC A; SHC adaptor protein 1; Shc; SHC transforming protein 1; SHC transforming protein; SHC-transforming protein 1; SHC-transforming protein 3; SHC-transforming protein A; SHC1; SHC1_HUMAN; SHCA; Src homology 2 domain-containing-transforming protein C1.
Calculated MW	Calculated MW: 63 kDa; Observed MW: 50,55,70 kDa
Uniprot ID	P29353
Gene ID	6464
Background	This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]
Cellular Location	Cytoplasm; Mitochondrion matrix. Localized to the mitochondria matrix. Targeting of isoform p46Shc to mitochondria is mediated by its first 32 amino acids, which behave as a bona fide mitochondrial targeting sequence. Isoform p52Shc and isoform p66Shc, that contain the same sequence but more internally located, display a different subcellular localization and Mitochondrion. In case of oxidative conditions, phosphorylation at 'Ser-36' of isoform p66Shc, leads to mitochondrial

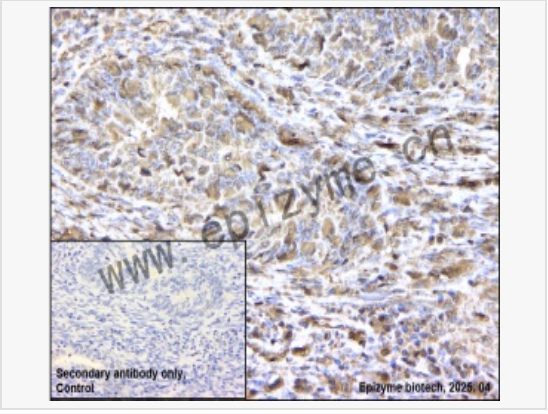
Validation Images



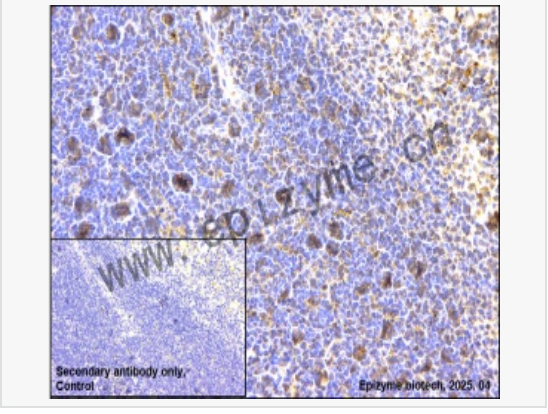
Western Blot - Anti-Phospho-SHC (Tyr427) Rabbit mAb [69G89Q59]
All lanes: R015472 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: Rat liver 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: 63 kDa
Observed band size: 50,55,70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-SHC (Tyr427) Rabbit mAb [69G89Q59]
Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015472 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-SHC (Tyr427) Rabbit mAb [69G89Q59]
Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015472 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-SHC (Tyr427) Rabbit mAb [69G89Q59]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse spleen tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015472 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.