

## SGK3 (Phospho Thr320) Rabbit pAb

CatalogNo: YP1486

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC

#### MW

- 54kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human SGK3 (Thr320)

**Specificity** This antibody detects endogenous levels of Human SGK3 (phospho-Thr320)

### Target Information

**Gene name** SGK3 CISK SGKL

**Protein Name** Serine/threonine-protein kinase Sgk3

Organism	Gene ID	UniProt ID
Human	<a href="#">100533105</a> ;	<a href="#">Q96BR1</a> ;
Mouse	<a href="#">170755</a> ;	<a href="#">Q9ERE3</a> ;
Rat		<a href="#">Q8R4V0</a> ;

**Cellular Localization**

Cytoplasmic vesicle . Early endosome. Recycling endosome. Endosomal localization is a prerequisite for complete kinase activity. It is essential for its colocalization with the kinase responsible for phosphorylating Ser-486 thus allowing PDK1 phosphorylation of Thr-320 resulting in complete activation of SGK3. Localized in vesicle-like structures and in the early endosome. Colocalizes with SLC9A3/NHE3 in the recycling endosomes.

**Tissue specificity**

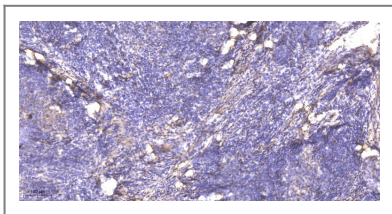
Expressed in most tissues with highest levels in pancreas, kidney liver, heart and brain and lower levels in lung, placenta and skeletal muscle. Expression is higher in ER-positive breast tumors than ER-negative breast tumors.

**Function**

Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-320) and the other in the C-terminal regulatory region (Ser-486), need to be phosphorylated for its full activation.,Function:Involved in the activation of potassium channels. Mediates cell IL-3-dependent survival signals.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 PX (phox homology) domain.,subcellular location:Localized in vesicle-like structures and in the early endosome.,tissue specificity:Expressed in most tissues with highest levels in pancreas, kidney liver, heart and brain and lower levels in lung, placenta and skeletal muscle.,

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**| Validation Data**



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

**| Contact information**

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