

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SGK1 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) SGK2 and rhSGK3 is observed.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SGK1 Met1-Leu431 Accession # O00141
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

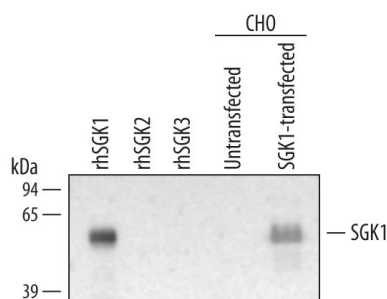
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	3-15 µg/mL	Paraffin-embedded sections of human kidney

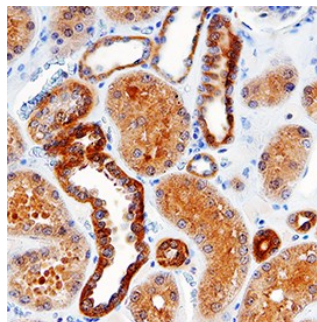
DATA

Western Blot



Detection of Human SGK1 by Western Blot. Western blot shows lysates of CHO Chinese hamster ovary cell line non-transfected and transfected with human SGK1. PVDF membrane was probed with 1 µg/mL Rabbit Anti-Human SGK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3200) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # Catalog # HAF008). A specific band for SGK1 was detected at approximately 54 kDa (as indicated). For additional reference, recombinant human SGK1, SGK2, and SGK3 were included. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Detection of SGK1 in Human Kidney. SGK1 was detected in paraffin-embedded sections of human kidney using Rabbit Anti-Human SGK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3200) at 3 µg/mL for 1 hour at room temperature followed by incubation for 30 minutes at room temperature with Anti-Rabbit IgG VisUCyte HRP Polymer Antibody (Catalog # VC003). Tissue was stained with DAB (brown color) and counterstained with hematoxylin (blue color).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Serum- and glucocorticoid-regulated protein kinase 1 (SGK1) is a member of the AGC family of serine/threonine kinases. In addition to serum and glucocorticoids, insulin, IGF-I, osmotic shock, and mineralocorticoids have been demonstrated to activate SGK1. Expressed at low levels, SGK1 appears to function as a regulator of epithelial ion transport. Sustained high levels of SGK1 activation have been implicated in hypertension and diabetic nephropathy.