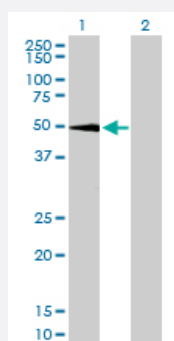


SGK monoclonal antibody (M01), clone 4D7-G3

Catalog # H00006446-M01

Size 100 ug

Applications

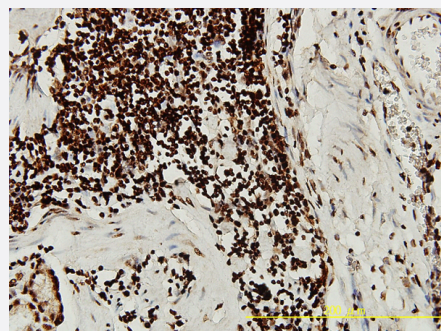


Western Blot (Transfected lysate)

Western Blot analysis of SGK expression in transfected 293T cell line by SGK monoclonal antibody (M01), clone 4D7-G3.

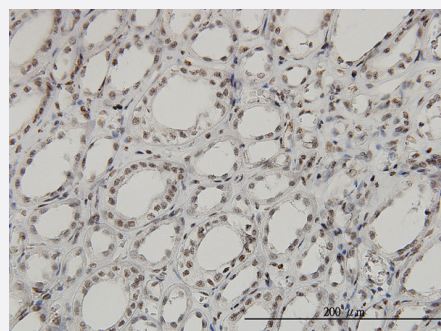
Lane 1: SGK transfected lysate (48.9 KDa).

Lane 2: Non-transfected lysate.



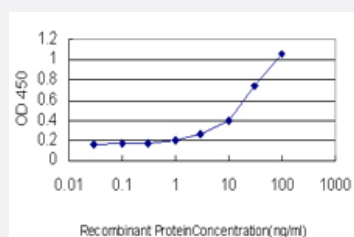
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SGK on formalin-fixed paraffin-embedded human stomach tissue. [antibody concentration 5 ug/ml]



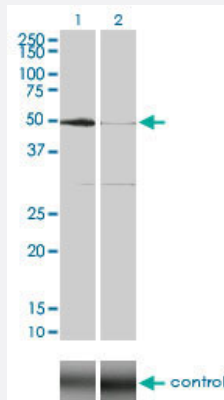
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SGK on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



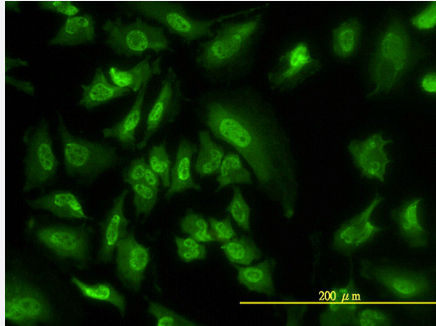
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SGK is approximately 1 ng/ml as a capture antibody.



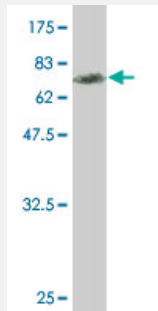
RNAi Knockdown (Antibody validated)

Western blot analysis of SGK over-expressed 293 cell line, cotransfected with SGK Validated Chimera RNAi (Cat # H00006446-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with SGK monoclonal antibody (M01) clone 4D7-G3 (Cat # H00006446-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to SGK on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (73.04 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant SGK.
Immunogen	SGK (AAH01263.1, 1 a.a. ~ 431 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MTVKTEAAKGTLTYSRMGMVAIIAFMKQRRMGLNDFIQKIANN SYACKHPEVQSILKISQPQEPE LMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKK AILKKKEEKHIMSERNVLLKNV KHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLPRA RFYAAEIASALGYLHSLNMYRDLKPENILLDSQGHVLTDFGLCKENIEHNSTTSTFCGTPEYLAPEV LHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQK DRTKRLGAKDDFMEIKSHVFFSLINWDDLKINKITPPFNPNVSGPNDLRHFDPEFTEEPVPNSIGK SPDSVLVTASVKEAAEAFLGFSYAPPTDSFL
Host	Mouse

Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (73.04 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of SGK expression in transfected 293T cell line by SGK monoclonal antibody (M01), clone 4D7-G3.

Lane 1: SGK transfected lysate(48.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SGK on formalin-fixed paraffin-embedded human stomach tissue. [antibody concentration 5 ug/ml]

[Protocol Download](#)

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Immunoperoxidase of monoclonal antibody to SGK on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SGK is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

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[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of monoclonal antibody to SGK on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — SGK1

Entrez GeneID [6446](#)

GeneBank Accession# [BC001263](#)

Protein Accession# [AAH01263.1](#)

Gene Name SGK1

Gene Alias SGK

Gene Description serum/glucocorticoid regulated kinase 1

Omim ID [602958](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000017247|serine/threonine protein kinase SGK

Disease

- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)

- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Kidney Failure](#)