

Rabbit QIK/QSK Polyclonal Antibody | anti-QIK/QSK antibody

Phospho-QIK/QSK (Thr182/Thr175/Thr221) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329744	Rabbit	Human, Mouse, RatPredicted Reactivity: Pig (88%), Zebrafish (88%), Dog (88%), Chicken (88%), Xenopus (88%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

QIK/QSK; Polyclonal Antibody; Phospho-QIK/QSK (Thr182/Thr175/Thr221) Antibody; KID2; MSK; myocardial SNF1 like kinase; QIK; Qin-induced kinase; Salt inducible kinase 1; Salt-inducible protein kinase 1; Serine threonine protein kinase SNF1 like kinase 1; Serine threonine protein kinase SNF1LK; Serine/threonine-protein kinase SIK1; Serine/threonine-protein kinase SNF1-like kinase 1; Serine/threonine-protein kinase SNF1LK; SIK-1; SIK1; SIK1_HUMAN; SNF1 like kinase; DKFZp434K1115; EC 2.7.11.1; KIAA0781; LOH11CR1; Qin induced kinase; Salt inducible kinase 2; Salt inducible protein kinase 2; Salt inducible serine/threonine kinase 2; Salt-inducible protein kinase 2; Serine/threonine protein kinase SIK2; Serine/threonine protein kinase SNF1 like kinase 2; Serine/threonine-protein kinase SIK2; Serine/threonine-protein kinase SNF1-like kinase 2; SIK 2; SIK-2; SIK2; SIK2_HUMAN; SNF1 like kinase 2; SNF1LK2; FLJ12240; KIAA0999; L19; QSK; Salt inducible kinase 3; serine/threonine-protein kinase QSK; Serine/threonine-protein kinase SIK3; SIK 3; SIK family kinase 3; SIK3_HUMAN; anti-QIK/QSK antibody

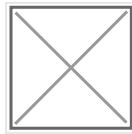
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (88%), Zebrafish (88%), Dog (88%), Chicken (88%), Xenopus (88%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-QIK/QSK (Thr182/Thr175/Thr221) Antibody detects endogenous levels of QIK/QSK only when phosphorylated at Thr182/Thr175/Thr221. Tissue Specificity: Expressed in chondrocytes.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-QIK/QSK antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human QIK/QSK around the phosphorylation site of Thr182/Thr175/Thr221.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Thr-221 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Phosphorylation at Thr-221 is inhibited in response to PTHLH/PTHrP. Phosphorylated at Thr-469 and Ser-551 in response to cAMP signaling (Probable).
Subunit Structure	Binds to and is activated by YWHAZ when phosphorylated on Thr-221. Interacts with 14-3-3 proteins. Interacts with HDAC4; this interaction leads to HDAC4 retention in the cytoplasm (By similarity). Interacts with DEPTOR, MLST8/GbetaL, RICTOR and RPTOR.
Similarity	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.
Subcellular Location	Cytoplasm. Note: Locates to punctate structures within the cytoplasm on binding to YWHAZ.

Preparation and Storage

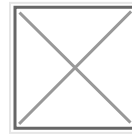
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



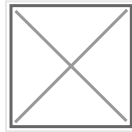
IHC (Immunohistochemistry)

At 1/200 staining Human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



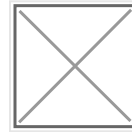
IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of SIK1/2/3 (Phospho-Thr182/Thr175/Thr221) using IL-4 treated HeLa whole cell lysates. -/+ means absence or presence of N peptide (1/4 non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-QIK/QSK antibody

Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor. Involved in the dynamic regulation of mTOR signaling in chondrocyte differentiation during skeletogenesis. Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (Probable). Prevents HDAC4 translocation to the nucleus (By similarity).

NCBI AND UNIPROT INFORMATION

NCBI GI #	116256471
NCBI GeneID	150094
NCBI Accession #	NP_775490.2
NCBI GenBank Nucleotide #	NM_173354.3
UniProt Accession #	P57059; Q9H0K1; Q9Y2K2
Molecular Weight	84,902 Da
NCBI Official Full Name	serine/threonine-protein kinase SIK1
NCBI Official Synonym Full Names	salt-inducible kinase 1
NCBI Official Symbol	SIK1
NCBI Official Synonym Symbols	MSK; SIK; SNF1LK
NCBI Protein Information	serine/threonine-protein kinase SIK1; SIK-1; SNF1-like kinase; myocardial SNF1-like kinase; salt-inducible protein kinase 1; serine/threonine protein kinase; serine/threonine-protein kinase SNF1LK; serine/threonine-protein kinase SNF1-like kinase 1
UniProt Protein Name	Serine/threonine-protein kinase SIK1
UniProt Gene Name	SIK1
UniProt Synonym Gene Names	SIK; SNF1LK; SIK-1
UniProt Entry Name	SIK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/qik-qsk-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329744>