

#3782 Store at -20°C

GCK Antibody



Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	91	Rabbit	#Q12851	5871

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	GCK Antibody detects endogenous levels of total GCK protein. This antibody does not cross-react with HPK or other members of the GCK family.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser380 of human GCK. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Germinal center kinase (GCK) is the founding member of the GCK family, a group of serine/threonine kinases homologous to the yeast Ste20 kinase. GCK is activated by TNF and associated with TRAF2 (TNF receptor-associated factor 2) and MEKK1, thereby activating the SAPK/JNK pathway (1,2). GCK does not significantly phosphorylate MEKK1, instead it enhances MEKK1 oligomerization and autophosphorylation (3). GCK binds and activates MLK3, indicating that GCK may have other effectors (3).	
Background References	1. Pombo, C. M. et al. (1995) <i>Nature</i> 377, 750-754. 2. Yuasa, T. et al. (1998) <i>J. Biol. Chem.</i> 273, 22681-22692. 3. Chadee, D. N. et al. (2002) <i>Mol. Cell. Biol.</i> 22, 737-749.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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