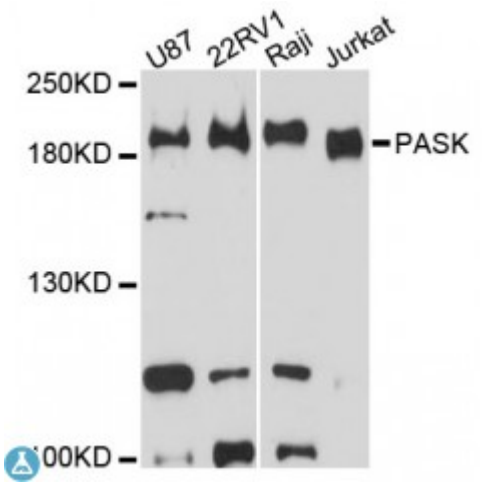
Anti-PASK Antibody



Description	This gene encodes a member of the serine/threonine kinase family that contains two PAS domains. Expression of this gene is regulated by glucose, and the encoded protein plays a role in the regulation of insulin gene expression. Downregulation of this gene may play a role in type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Model	STJ116338
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1194-1323 of human PASK (NP_055963.2).
Gene ID	23178
Gene Symbol	PASK
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitously expressed, with slightly higher expression in brain, prostate and testis, Reduced expression was found in placenta, Present in germ cells of testis and in the midpiece of sperm tails (at protein level)
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	PAS domain-containing serine/threonine-protein kinase PAS-kinase PASKIN hPASK

Molecular Weight	142.929 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:17270OMIM:607505
Alternative Names	PAS domain-containing serine/threonine-protein kinase PAS-kinase PASKIN hPASK
Function	Serine/threonine-protein kinase involved in energy homeostasis and protein translation, Phosphorylates EEF1A1, GYS1, PDX1 and RPS6, Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions, Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation, May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells
Cellular Localization	Cytoplasm,
Post-translational Modifications	Autophosphorylated on Thr-1161 and Thr-1165, Autophosphorylation is activated by phospholipids,