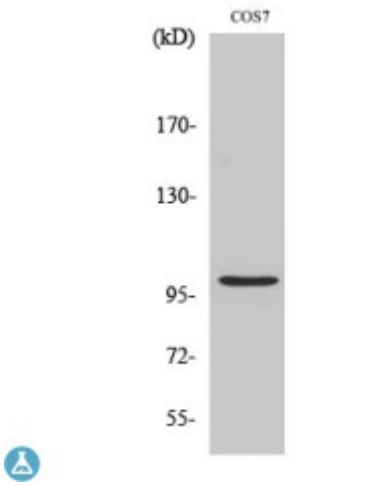
Anti-AAK1 antibody



Description	Rabbit polyclonal to AAK1.

Model	STJ91403
Host	Rabbit
Reactivity	Human, Mouse, Rat, Simian
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human AAK1
Immunogen Region	240-320 aa, Internal
Gene ID	22848
Gene Symbol	AAK1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	AAK1 Polyclonal Antibody detects endogenous levels of AAK1 protein.
Tissue Specificity	Detected in brain, heart and liver. Isoform 1 is the predominant isoform in brain.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	AP2-associated protein kinase 1 Adaptor-associated kinase 1
Molecular Weight	94 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:19679OMIM:616405
Alternative Names	AP2-associated protein kinase 1 Adaptor-associated kinase 1
Function	Regulates clathrin-mediated endocytosis by phosphorylating the AP2M1/mu2 subunit of the adaptor protein complex 2 (AP-2) which ensures high affinity binding of AP-2 to cargo membrane proteins during the initial stages of endocytosis. Isoform 1 and isoform 2 display similar levels of kinase activity towards AP2M1. Regulates phosphorylation of other AP-2 subunits as well as AP-2 localization and AP-2-mediated internalization of ligand complexes. Phosphorylates NUMB and regulates its cellular localization, promoting NUMB localization to endosomes. Binds to and stabilizes the activated form of NOTCH1, increases its localization in endosomes and regulates its transcriptional activity.
Cellular Localization	Cell membrane Membrane, clathrin-coated pit. Active when found in clathrin-coated pits at the plasma membrane. In neuronal cells, enriched at presynaptic terminals. In non-neuronal cells, enriched at leading edge of migrating cells .
Post-translational Modifications	Autophosphorylated.