

Rabbit AAK1 Polyclonal Antibody | anti-AAK1 antibody

AAK1 Antibody

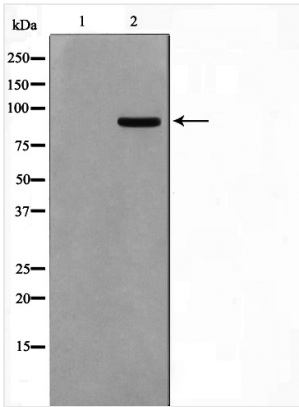
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321189	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

AAK1; Polyclonal Antibody; AAK1 Antibody; AAK 1; Aak1; AAK1_HUMAN; Adaptor associated kinase 1; Adaptor-associated kinase 1; AP2 associated kinase 1; AP2 associated protein kinase 1; AP2-associated protein kinase 1; DKFZp686F03202; DKFZp686K16132; FLJ23712; FLJ25931; FLJ31060; FLJ42882; FLJ45252; KIAA1048; MGC138170; MGC164568; MGC164570; anti-AAK1 antibody

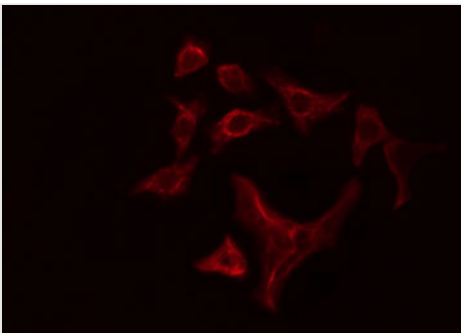
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AAK1 antibody detects endogenous levels of AAK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	961
Applicable Applications for anti-AAK1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AAK1
Subcellular Location	Membrane. Cell Membrane. Membrane > Clathrin-Coated Pit. Active when found in clathrin-coated pits at the plasma membrane.
Tissue Specificity	Detected in brain, heart and liver. Isoform 1 is the predominant isoform in brain.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis on COS7 cell lysate using AAK1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321189 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-AAK1 antibody

Description: AAK1 is an NAK kinase. Plays a regulatory role in clathrin-mediated endocytosis, including the regulation of fatty acid synthesis and cholesterol synthesis.

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.

Subunit Structure: Interacts with alpha-adaptin, AP-2, clathrin, NUMB and EPS15 isoform 2. Interacts with membrane-bound activated NOTCH1 but not with the inactive full-length form of NOTCH1. Preferentially interacts with monoubiquitinated activated NOTCH1 compared to the non-ubiquitinated form.

Post-translational Modifications: Autophosphorylated.

Similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148277037
NCBI GeneID	22848
NCBI Accession #	NP_055726.3
NCBI GenBank Nucleotide #	NM_014911.3
UniProt Accession #	Q2M2I8; Q4ZFZ3; Q53RX6; Q9UPV4
Molecular Weight	Observed: 94 kDa Predicted: 104 kDa
NCBI Official Full Name	AP2-associated protein kinase 1
NCBI Official Synonym Full Names	AP2 associated kinase 1
NCBI Official Symbol	AAK1
NCBI Protein Information	AP2-associated protein kinase 1
UniProt Protein Name	AP2-associated protein kinase 1
UniProt Gene Name	AAK1
UniProt Synonym Gene Names	KIAA1048

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/aak1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321189>