

Datasheet for ABIN499183
anti-AAK1 antibody (N-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	0.1 mg
Target:	AAK1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	A 20 amino acid peptide near the amino terminus of the uman Aak1
Isotype:	IgG
Specificity:	This antibody recognizes AAK1 near the amino terminus.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	AAK1
Alternative Name:	AAK1 (AAK1 Products)
Background:	AP2-associated protein kinase 1 (Aak1) is a member of the Ark1/Prk1 subfamily of Ser/Thr protein kinases that are thought to regulate endocytosis by phosphorylating the accessory

Target Details

endocytic components. Aak1 interacts with and phosphorylates the μ 2 subunit of the AP-2 complex, which promotes binding of the AP-2 to tyrosine based (Yxxf) internalization motif-containing receptors and subsequent receptor endocytosis. At least two isoforms of Aak1 are known to exist, the longer isoform contains an extended carboxy-terminus that contains an additional clathrin-binding domain. Overexpression of this long isoform or Aak1 depletion by RNA interference impairs transferrin recycling from the early/sorting endosome, suggesting that Aak1 functions at multiple steps of the endosomal pathway by regulating transferrin internalization and its recycling back to the plasma membrane. Synonyms: AP2-associated protein kinase 1, KIAA1048

Gene ID: 22848

NCBI Accession: [NP_055726](#)

UniProt: [Q2M2I8](#)

Application Details

Application Notes: ELISA. Western Blot: Aak1 antibody can be used for detection of Aak1 at 1 - 2 μ g/mL. Immunofluorescence. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % Sodium Azide as preservative

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

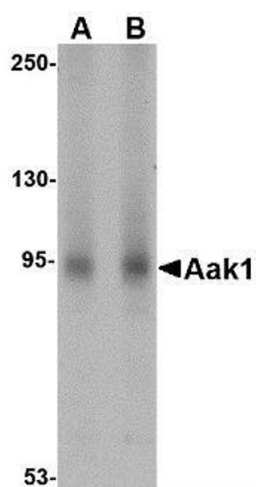
Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunofluorescence

Image 1. Immunocytochemistry of Aak1 in A-20 cells with AP30003PU-N Aak1 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of Aak1 in A-20 lysate with AP30003PU-N Aak1 antibody at (A) 1 and (B) 2 µg/ml.