

# Aak1 Antibody

Catalog No: #24772

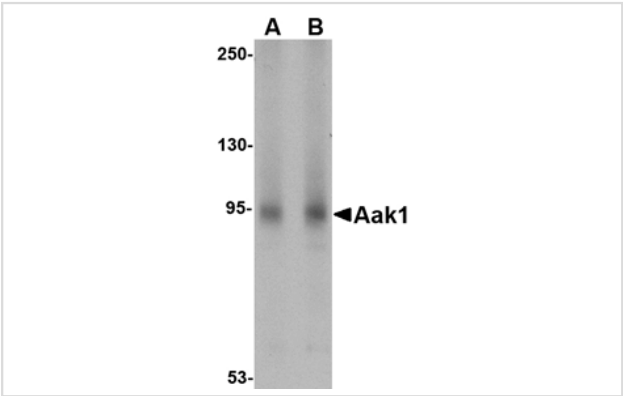


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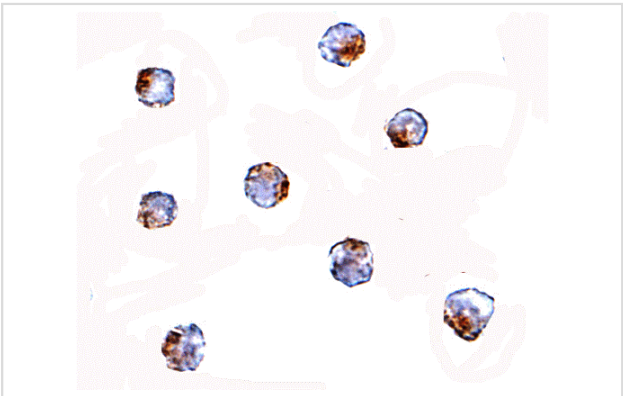
## Description

|                       |   |
|-----------------------|---|
| Product Name          | Aak1 Antibody   |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Affinity chromatography purified via peptide column   |
| Applications          | ELISA WB ICC  |
| Species Reactivity    | Hu Ms Rt  |
| Immunogen Type        | Peptide   |
| Immunogen Description | Raised against a 20 amino acid peptide near the amino terminus of the human Aak1.   |
| Target Name           | Aak1  |
| Other Names           | AP2-associated protein kinase 1   |
| Accession No.         | Swiss-Prot:Q2M2I8Gene ID:22848  |
| Uniprot               | Q2M2I8  |
| GeneID                | 22848;  |
| Concentration         | 1mg/ml  |
| Formulation           | Supplied in PBS containing 0.02% sodium azide.  |
| Storage               | Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

## Images



Western blot analysis of Aak1 in A-20 lysate with Aak1 antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of Aak1 in A-20 cells with Aak1 antibody at 5 ug/mL.

## 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 endocytic components. Aak1 interacts with and phosphorylates the mu2 subunit of the AP-2 complex, which promotes binding of the AP-2 to tyrosine based (Yxxphi) 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.

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Note: This product is for in vitro research use only