BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Aak1 Antibody

Catalog Number: A05368-1

About AAK1

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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Overview

Product Name	Anti-Aak1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Aak1 Antibody (Catalog # A05368-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Aak1 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Aak1 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q2M2I8

Technical Details

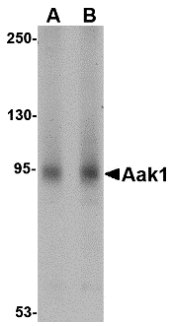
Immunogen	Aak1 antibody was raised against a 20 amino acid synthetic peptide near the amino terminus of the human Aak1. The immunogen is located within amino acids 190 - 240 of Aak1.

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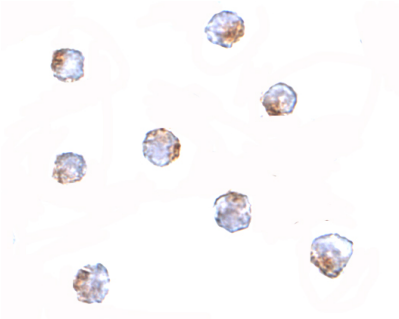
Predicted Reactive Species	Bovine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Aak1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Aak1 antibody can be used for detection of Aak1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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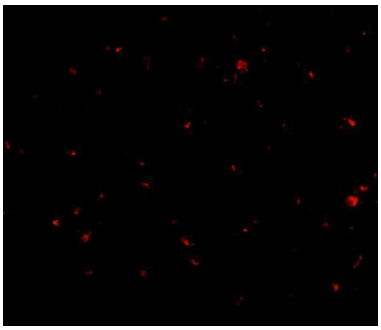
Anti-Aak1 Antibody (A05368-1) Images



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.



Immunofluorescence of aak1 in human brain tissue with aak1 antibody at 20 ug/mL.

Anti-Aak1 Antibody

For Research Use Only. Not for use in diagnostic procedures.