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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IP6K2 Antibody (Monoclonal, 4F10)

Catalog Number: M08792

About IP6K2

The endoplasmic reticulum is part of a protein sorting pathway, or in essence, the transportation system of the eukaryotic cell. The majority of endoplasmic reticulum resident proteins are retained in the endoplasmic reticulum through a retention motif. This motif is composed of four amino acids at the C-terminal end of the protein sequence. The most common retention sequence is KDEL (lys-asp-glu-leu). However, variation on KDEL does occur and other sequences can also give rise to endoplasmic reticulum retention (6). There are three KDEL receptors in mammalian cells, all have a very high degree of sequence identity; and all are located within the cis-Golgi and its intermediate compartments (4). In terms of function, KDEL receptors interact with GAP (GTPase-activating protein) of ARF1, which is involved in COPI dependent vesicle transport, and the KDEL receptor may also be responsible for the recruitment of this ARF1 to membranes which can then aid in the regulation of vesicle budding (3). It is also important to note that the KDEL receptor exhibits extensive sequence identity o yeast protein Erd2p, which is a receptor for the yeast ER retention signal (4, 5).

Overview

Product Name	Anti-IP6K2 Antibody (Monoclonal, 4F10)
Reactive Species	Human, Mouse
Description	Boster Bio Anti-IP6K2 Antibody (Monoclonal, 4F10) catalog # M08792. Tested in WB applications. This antibody reacts with Human, Mouse.
Application	WB
Clonality	Monoclonal 4F10
Formulation	Each vial contains 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Host	Mouse
Uniprot ID	Q9UHH9

Technical Details

Immunogen	Recombinant human IP6K2 (inositol hexakisphosphate kinase 2).
Predicted Reactive Species	Chimpanzee, Hamster
Cross Reactivity	Detects ~25kDa.
Isotype	IgG1

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Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein G-affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB, 1:500, ECL, Human, Mouse

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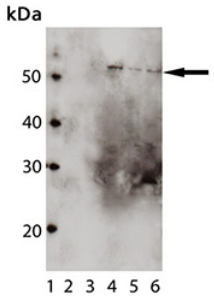
Anti-IP6K2 Antibody (Monoclonal, 4F10) (M08792) Images



Western blot analysis of IP6K2 expression in MW marker (lane 1), Neuro 2a cytosol lysate (lane 2), Neuro 2a+Chloroquine cytosol lysate (lane 3), Neuro 2a Membrane lysate (lane 4), Neuro 2a+Chloroquine Membrane lysate (lane 5) and SH-SY5Y whole cell lysates (lane 6). IP6K2 at 50KD was detected using mouse anti-IP6K2 Antigen Affinity purified monoclonal antibody (Catalog # M08792) at 1:500. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).