

For Research Use Only

BMP2K Polyclonal antibody, PBS Only

Catalog Number:32853-1-PBS



Basic Information

Catalog Number:

32853-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG36482

GenBank Accession Number:

NM_198892.1

GeneID (NCBI):

55589

UNIPROT ID:

Q9NSY1

Full Name:

BMP2 inducible kinase

Calculated MW:

129kDa 1161aa

Observed MW:

140 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

Background Information

BMP2K is an uncharacterized member of NAK family. Structural similarities of kinase domains (75% identical) and in vitro inhibition profiles categorized BMP2K as the closest homolog of AAK1. BMP2K was originally identified as a serine-threonine kinase regulating osteoblast differentiation whose gene product is sharply upregulated by BMP-2 stimulation. Later, various genetic and proteomic screens linked BMP2K to HIV entry, developmental dysplasia of the hip, myopia, leukemia, breast cancer metastasis and so on. Recent multivariate proteomic profiling approaches identified BMP2K as a component of purified CCV from HeLa cells. BMP2K can phosphorylate AP-2 in vitro and in vivo. Functional impairment of BMP2K impedes AP-2 phosphorylation leading to defects in clathrin-coated pit (CCP) morphology and cargo internalization. BMP2K engages AP-2 via its extended C-terminus and this interaction is important for its CCP localization and function (PMID: 34480404).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

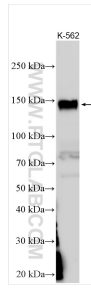
For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32853-1-AP (BMP2K antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32853-1-PBS in a different storage buffer formulation.