

For Research Use Only

# BMP2K Polyclonal antibody, PBS Only

Catalog Number:32853-1-PBS



## Basic Information

<b>Catalog Number:</b> 32853-1-PBS	<b>GenBank Accession Number:</b> NM_198892.1	<b>Purification Method:</b> Antigen affinity Purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 55589	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NSY1	
<b>Isotype:</b> IgG	<b>Full Name:</b> BMP2 inducible kinase	
<b>Immunogen Catalog Number:</b> AG36482	<b>Calculated MW:</b> 129kDa, 1161aa	
	<b>Observed MW:</b> 140 kDa	

## 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

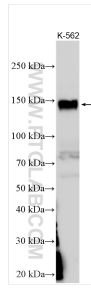
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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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.