For Research Use Only

ALPK1 Monoclonal antibody

Catalog Number: 67689-1-Ig



Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method: Protein A purification

67689-1-lg Size:

GeneID (NCBI):

BC060780

CloneNo.:

150ul, Concentration: 791 µg/ml by Nanodrop and 500 µg/ml by Bradford Full Name:

80216

2B8B5

method using BSA as the standard;

alpha-kinase 1 Calculated MW: Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000

Mouse Isotype:

Observed MW: 139 kDa

139 kDa

Immunogen Catalog Number:

AG5320

lgG1

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Positive Controls:

WB: COLO 320 cells, T-47D cells, A549 cells, U-87 MG

cells, Daudi cells, THP-1 cells

IHC: human heart tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Alpha-protein kinase 1, also known as alpha-kinase 1 (ALPK1), is associated with chronic kidney disease (CKD), myocardial infarction, gout and type 2 diabetes mellitus (DM). ALPK1 mutant has been reported to cause severe defects in motor co-ordination in mice. ALPK1 enhances the expression of proinflammatory cytokines including IL-1B, IL-8 and TGF-B1 in cultured human THP1 and human embryonic kidney 293 (HEK293) cells (PMID: 31557402, PMID: 26275947). ALPK1 short isoform (108 kDa) was highly expressed in brain, spinal cord, heart, lung, spleen, thymus, small intestine, skin and testis, while detectable inskeletal muscle and kidney. ALPK1 large isoform (130 kDa) appeared in heart, lung, thymus and skin (PMID: 21208416).

Storage

Storage:

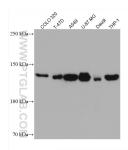
Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

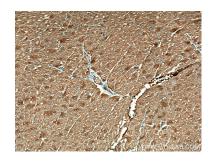
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67689-1-1g (ALPK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human heart tissue slide using 67689-1-Ig (ALPK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).