

For Research Use Only

ALPK1 Polyclonal antibody

Catalog Number: 19107-1-AP

8 Publications



Basic Information

Catalog Number:

19107-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5320

GenBank Accession Number:

BC060780

GeneID (NCBI):

80216

UNIPROT ID:

Q96QP1

Full Name:

alpha-kinase 1

Calculated MW:

139 kDa

Observed MW:

140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB: COLO 320 cells, HEK-293 cells, HepG2 cells

IHC: mouse brain 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-1 β , IL-8 and TGF- β 1 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 in skeletal muscle and kidney. ALPK1 large isoform (130 kDa) appeared in heart, lung, thymus and skin (PMID: 21208416).

Notable Publications

Author	Pubmed ID	Journal	Application
Fei Ding	34621265	Front Immunol	WB
Jing-Ying Li	36274483	Int Immunopharmacol	WB
X Liu	35689396	J Dent Res	WB, IHC

Storage

Storage:

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

Storage Buffer:

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

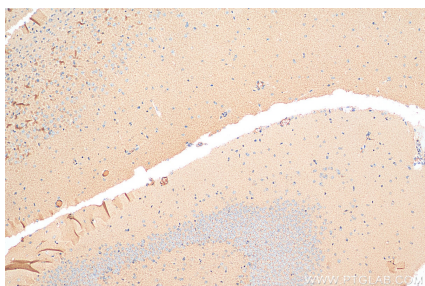
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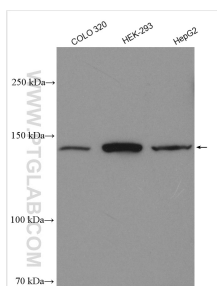
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19107-1-AP (ALPK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 19107-1-AP (ALPK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.