

For Research Use Only

AGK Polyclonal antibody, PBS Only

Catalog Number:33759-1-PBS



Basic Information

Catalog Number:

33759-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG37404

GenBank Accession Number:

BC022777

GeneID (NCBI):

55750

UNIPROT ID:

Q53H12

Full Name:

acylglycerol kinase

Calculated MW:

47 kDa

Observed MW:

47 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

AGK (Acylglycerol Kinase), also designated as MULK (multi-substrate lipid kinase), is a member of the AGK protein family and functions as a lipid kinase localized to the inner mitochondrial membrane. This protein exhibits a distinctive dual functionality. First, acting as a lipid kinase, it catalyzes the phosphorylation of monoacylglycerol and diacylglycerol to yield lysophosphatidic acid (LPA) and phosphatidic acid (PA), respectively, thereby participating in phospholipid metabolism and lipid-mediated signal transduction. Second, independent of its kinase activity, AGK serves as a core subunit of the TIM22 complex, where it is responsible for the translocation and insertion of multiple mitochondrial carrier proteins (e.g., ANT1) into the inner mitochondrial membrane.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

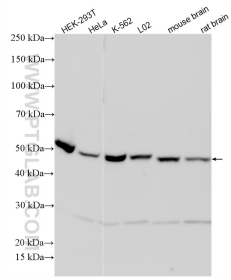
For technical support and original validation data for this product please contact:

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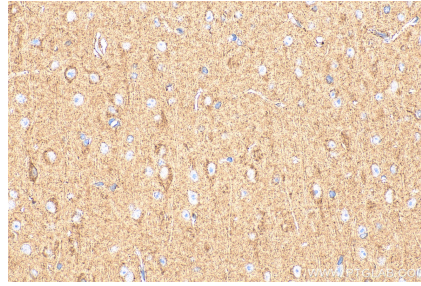
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33759-1-AP (AGK antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 33759-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 33759-1-AP (AGK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 33759-1-PBS in a different storage buffer formulation.