

For Research Use Only

AGK Polyclonal antibody

Catalog Number:33759-1-AP



Basic Information

| | | |
|---|--|--|
| Catalog Number: 33759-1-AP | GenBank Accession Number: BC022777 | Purification Method: Antigen affinity Purification |
| Source: Rabbit | GeneID (NCBI): 55750 | Recommended Dilutions: WB: 1:2000-1:12000 IHC: 1:50-1:500 |
| Isotype: IgG | UNIPROT ID: Q53H12 | |
| Immunogen Catalog Number: AG37404 | Full Name: acylglycerol kinase | |
| | Calculated MW: 47 kDa | |
| | Observed MW: 47 kDa | |

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse, rat

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

Positive Controls:

WB : HEK-293T cells, HeLa cells, K-562 cells, L02 cells, mouse brain tissue, rat brain tissue

IHC : mouse brain tissue,

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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

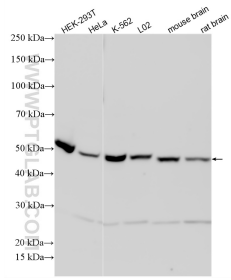
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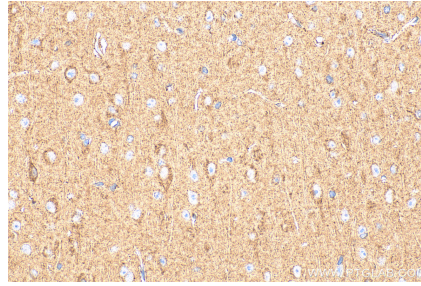
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Selected Validation Data



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.



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).