

For Research Use Only

AMPK Alpha Recombinant antibody

Catalog Number: 80209-5-RR



Basic Information

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| Catalog Number: 80209-5-RR | GenBank Accession Number: BC012622 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 5562 | CloneNo.: 4N5 |
| Source: Rabbit | UNIPROT ID: Q13131 | Recommended Dilutions: WB 1:2000-1:10000 IF-P 1:200-1:800 |
| Isotype: IgG | Full Name: protein kinase, AMP-activated, alpha 1 catalytic subunit | |
| Immunogen Catalog Number: AG1367 | Calculated MW: 63 kDa | |
| | Observed MW: 64 kDa | |

Applications

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| Tested Applications: WB, IF-P, ELISA | Positive Controls: |
| Species Specificity: human, mouse, rat | WB : HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells IF-P : rat brain tissue, |

Background Information

The mammalian 5-prime-AMP-activated protein kinase (AMPK) appears to play a role in protecting cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. PRKAA1 is also named as AMPK1, ACACA kinase, HMGCR kinase. It is a mammalian homologue of sucrose non-fermenting protein kinase (SNF-1), which belongs to a serine/threonine protein kinase family. It has 2 isoforms with molecular mass of 63-66 kDa produced by alternative splicing. 80209-5-RR can recognize both AMPK Alpha 1 and AMPK Alpha 2.

Storage

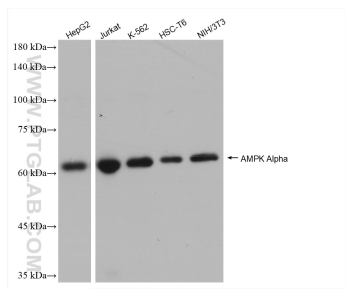
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

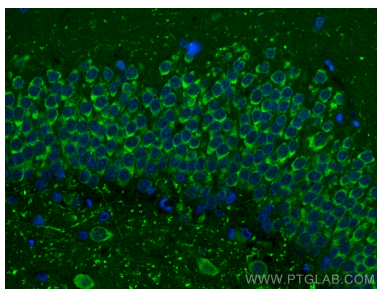
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

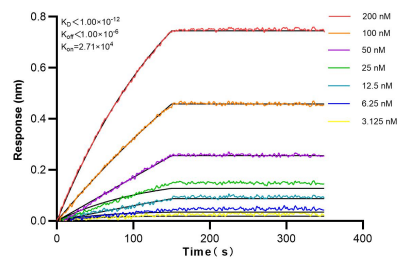
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80209-5-RR (AMPK alpha antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using AMPK Alpha antibody (80209-5-RR, Clone: 4N5) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 80209-5-RR against Human AMPK alpha were performed. The affinity constant is below 1 pM.