

Rabbit anti-Human, Mouse AGK Polyclonal Antibody | anti-AGK antibody

AGK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327697	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

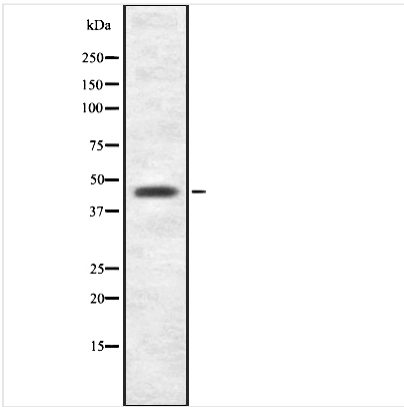
PRODUCT SYNONYMS

AGK; Polyclonal Antibody; AGK Antibody; 2610037M15Rik; 6720408I04Rik; Acylglycerol kinase mitochondrial; Acylglycerol kinase; mitochondrial; agk; AGK_HUMAN; AI465370; FLJ10842; hAGK; HsMuLK; MuLK; Multi substrate lipid kinase; Multi-substrate lipid kinase; Multiple substrate lipid kinase; RGD1562046; anti-AGK antibody

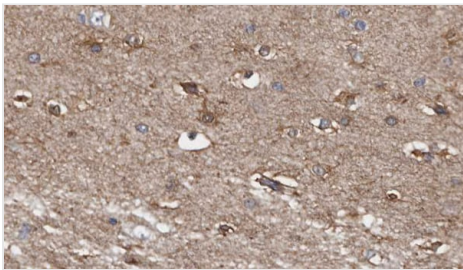
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	AGK antibody detects endogenous levels of total AGK
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	422
Applicable Applications for anti-AGK antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AGK
Subcellular Location	Mitochondrion Membrane.
Tissue Specificity	Highly expressed in muscle, heart, kidney and brain.
Predicted Cross Reactivity	Bovine, Dog, Chicken
Similarity	Bovine (88%), Dog (88%), Chicken (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of AGK using Jurkat whole cell lysates



IHC (Immunohistochemistry)
AAA327697 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-AGK antibody	Function: Lipid kinase that can phosphorylate both monoacylglycerol and diacylglycerol to form lysophosphatidic acid (LPA) and phosphatidic acid (PA), respectively (PubMed:15939762). Does not phosphorylate sphingosine (PubMed:15939762). Independently of its lipid kinase activity, acts as a component of the TIM22 complex (PubMed:28712724, PubMed:28712726). The TIM22 complex mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane by forming a twin-pore translocase that uses the membrane potential as the external driving force (PubMed:28712724, PubMed:28712726). In the TIM22 complex, required for the import of a subset of metabolite carriers into mitochondria, such as ANT1/SLC25A4 and SLC25A24, while it is not required for the import of TIMM23 (PubMed:28712724). Overexpression increases the formation and secretion of LPA, resulting in transactivation of EGFR and activation of the downstream MAPK signaling pathway, leading to increased cell growth (PubMed:15939762). Subunit Structure: Component of the TIM22 complex, which core is composed of TIMM22, associated with TIMM10 (TIMM10A and/or TIMM10B), TIMM9, AGK and TIMM29 (PubMed:28712724, PubMed:28712726). Similarity: Belongs to the AGK family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8922701
NCBI GeneID	55750
NCBI Accession #	NP_060708.1
NCBI GenBank Nucleotide #	NM_018238.4
UniProt Accession #	Q53H12; Q75KN1; Q96GC3; Q9NP48
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	acylglycerol kinase, mitochondrial isoform 1
NCBI Official Synonym Full Names	acylglycerol kinase
NCBI Official Symbol	AGK
NCBI Official Synonym Symbols	MULK; CATC5; CTRCT38; MTDPS10
NCBI Protein Information	acylglycerol kinase, mitochondrial
UniProt Protein Name	Acylglycerol kinase, mitochondrial
UniProt Gene Name	AGK

UniProt Synonym Gene Names

hAGK1 PublicationManual assertion based on opinion iniRef.6; HsMuLK1 PublicationManual assertion based on opinion iniRef.1; MuLK1 PublicationManual assertion based on opinion iniRef.1; Multi-substrate lipid kinase1 PublicationManual assertion based on opi

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/agk-antibody-immunohistochemistry-western-blot-elisa/327697>