

ARG59986 anti-PASK antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|------------------------------------------------------------------------------------------------------|
| Product Description | Rabbit Polyclonal antibody recognizes PASK |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | PASK |
| Species | Human |
| Immunogen | Recombinant fusion protein corresponding to aa. 1194-1323 of Human PASK (NP_055963.2). |
| Conjugation | Un-conjugated |
| Alternate Names | PAS domain-containing serine/threonine-protein kinase; hPASK; PASKIN; STK37; PAS-kinase; EC 2.7.11.1 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| | ICC/IF | 1:50 - 1:200 |
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Jurkat | |
| Observed Size | 190 kDa | |

Properties

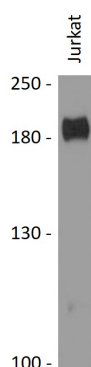
| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Symbol | PASK |
| Gene Full Name | PAS domain containing serine/threonine kinase |
| Background | This gene encodes a member of the serine/threonine kinase family that contains two PAS domains. Expression of this gene is regulated by glucose, and the encoded protein plays a role in the regulation of insulin gene expression. Downregulation of this gene may play a role in type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011] |
| Function | Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells; however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate to respiratory regulation. [UniProt] |
| Calculated Mw | 143 kDa |
| PTM | Autophosphorylated on Thr-1161 and Thr-1165. Autophosphorylation is activated by phospholipids. [UniProt] |
| Cellular Localization | Cytoplasm. Nucleus. Note=Localizes in the nucleus of testis germ cells and in the midpiece of sperm tails. [UniProt] |

Images



ARG59986 anti-PASK antibody WB image

Western blot: 25 µg of Jurkat cell lysate stained with ARG59986 anti-PASK antibody at 1:1000 dilution.