pak-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	pak-1, Polyclonal Antibody
Full Product Name	Rabbit anti-Caenorhabditis elegans pak-1 Polyclonal Antibody
Product Gene Name	anti-pak-1 antibody
Product Synonym Names	pak-1 Antibody; Serine/threonine-protein kinase pak-1; EC 2.7.11.1; CePAK; p21-activated kinase 1; PAK1; pak-1 C09B8.7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Caenorhabditis elegans
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	13,879 Da
3D Structure	ModBase 3D Structure for Q17850
Immunogen	Recombinant Caenorhabditis elegans pak-1 protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-pak-1 antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-pak-1 antibody	MBS7190288 is an antibody targeting pak-1. Also known as Rabbit anti-Caenorhabditis elegans pak-1 Polyclonal Antibody. Reactive in Caenorhabditis elegans. Host: Rabbit.
Other Notes	Small volumes of anti-pak-1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for pak-1. It may not necessarily be applicable to this product.

NCBI GI #	71982766
NCBI GeneID	180873
NCBI Accession #	NP_001024377.1
UniProt Primary Accession #	Q17850
UniProt Secondary Accession #	Q22041; Q86GT8; Q86GT9; Q86GU0; Q94133

UniProt Related Accession #	Q17850
GenBank Nucleotide #	NM_001029206.2
NCBI Official Full Name	Serine/threonine-protein kinase pak-1
NCBI Official Symbol	pak-1
UniProt Protein Name	Serine/threonine-protein kinase pak-1
UniProt Synonym Protein Names	CePAK; p21-activated kinase 1; PAK1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	pak-1
UniProt Synonym Gene Names	PAK1
NCBI Protein Information	Serine/threonine-protein kinase pak-1
UniProt Comments for pak-1	Required for hypodermal cell fusion, together with cdc-42 and ced-10, leading to embryonic body elongation, which involves dramatic cytoskeletal reorganization (PubMed:8824291). Plays a redundant role with max-2 in dorsal axonal guidance in ventral cord commissural motoneurons and in P neuroblast migration. Acts probably downstream of Rho GTPases mig-2 and ced-10 to regulate these 2 processes (PubMed:17050621). Involved in orientating axonal growth of HSN neurons (PubMed:18499456). During gonad morphogenesis and probably in association with pix-1 and git-1, involved in the migration of distal tip cell (DTC) and in maintaining their sharp tapering morphology. In addition, plays a redundant role with max-2 in DTC-mediated guidance of gonad elongation (PubMed:19023419, PubMed:19797046). May phosphorylate mlc-4 (PubMed:19675126).
Research Articles on pak-1	**1.** FOXO-Pak1 pathway was recently shown to regulate mammalian neuronal polarity, our findings indicate that the roles of FOXO and Pak1 in neuronal migration are most likely conserved from C. elegans to higher organisms.
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