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PACRG Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17656a

Specification

PACRG Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q96M98
Other Accession	NP_001073847.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33342**
Antigen Region	**46-74**

PACRG Antibody (N-term) - Additional Information

Gene ID 135138

Other Names
Parkin coregulated gene protein, Molecular chaperone/chaperonin-binding protein, PARK2 coregulated gene protein, PACRG, GLUP

Target/Specificity
This PACRG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 46-74 amino acids from the N-terminal region of human PACRG.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PACRG Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PACRG Antibody (N-term) - Protein Information

Name PACRG

Synonyms GLUP

Function Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (PubMed:36191189). Suppresses cell death induced by accumulation of unfolded Pael receptor (Pael-R, a substrate of Parkin) (PubMed:14532270). Facilitates the formation of inclusions consisting of Pael-R, molecular chaperones, protein degradation molecules and itself when proteasome is inhibited (PubMed:14532270). May play an important role in the formation of Lewy bodies and protection of dopaminergic neurons against Parkinson disease (PubMed:14532270).

Cellular Location
Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9DAK2}

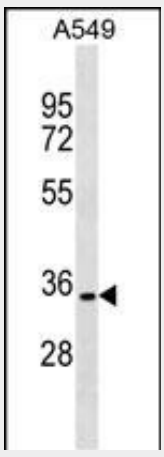
Tissue Location
Expressed in all immune tissues, spleen, lymph nodes, thymus, tonsils, leukocyte and bone marrow. Expressed also in heart, brain, skeletal muscle, kidney, lung and pancreas. Expressed in primary Schwann cells and very weakly by monocyte-derived macrophages the primary host cells of Mycobacterium leprae, the causative agent of leprosy. Component of Lewy bodies, intraneuronal inclusions found in the brain of Parkinson disease patients.

PACRG Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PACRG Antibody (N-term) - Images



PACRG Antibody (N-term) (Cat. #AP17656a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the PACRG antibody detected the PACRG protein (arrow).

PACRG Antibody (N-term) - Background

This gene encodes a protein that is conserved across

metazoans. In vertebrates, this gene is linked in a head-to-head arrangement with the adjacent parkin gene, which is associated with autosomal recessive juvenile Parkinson's disease. These genes are co-regulated in various tissues and they share a bi-directional promoter. Both genes are associated with susceptibility to leprosy. The parkin co-regulated gene protein forms a large molecular complex with chaperones, including heat shock proteins 70 and 90, and chaperonin components. This protein is also a component of Lewy bodies in Parkinson's disease patients, and it suppresses unfolded Pael receptor-induced neuronal cell death. Multiple transcript variants encoding different isoforms have been found for this gene.

PACRG Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Wilson, G.R., et al. Fertil. Steril. 93(7):2262-2268(2010)
Dagda, R.K., et al. J. Bioenerg. Biomembr. 41(6):473-479(2009)
Velez, D.R., et al. Int. J. Tuberc. Lung Dis. 13(9):1068-1076(2009)
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