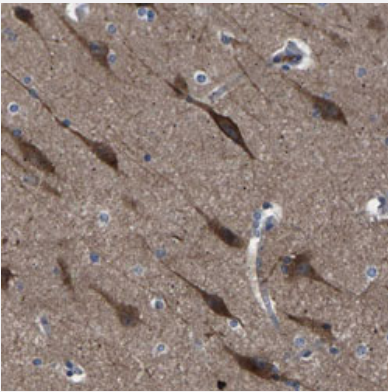


# PAK7 polyclonal antibody

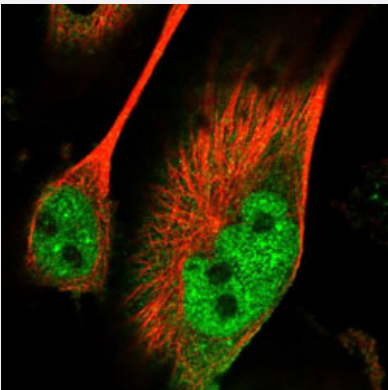
Catalog # PAB30809      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with PAK7 polyclonal antibody (Cat # PAB30809) shows strong cytoplasmic positivity in neuronal cells.



### Immunofluorescence

Immunofluorescent staining of U-251 MG with PAK7 polyclonal antibody (Cat # PAB30809) (Green) shows positivity in nucleus but excluded from the nucleoli.

## Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PAK7.
Immunogen	Recombinant protein corresponding to human PAK7.
Sequence	KPSEYSDLKWEYQRASSSSPLDYSFQFTPSRTAGTSGCSKESLAYSESEWGPSLDDYDRRPKS SYLNQTSPQPTMRQRSRSGSLQEPMMPF GASAFKTHPQGHSYNSYTPRLSEPTMCIPKVDYD RAQMVLS P
Host	Rabbit

Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:20-1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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## Gene Info — PAK7

Entrez GeneID	<a href="#">57144</a>
Protein Accession#	<a href="#">Q9P286</a>
Gene Name	PAK7
Gene Alias	KIAA1264, MGC26232, PAK5
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 7
Omim ID	<a href="#">608038</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1 interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]

**Other Designations**

OTTHUMP00000030258|OTTHUMP00000030259|OTTHUMP00000030260|p21(CDKN1A)-activated kinase 7|p21-activated kinase 7|protein kinase PAK5|serine/threonine-protein kinase PAK7

**Pathway**

- [Axon guidance](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

**Disease**

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Parkinson disease](#)
- [Tobacco Use Disorder](#)