



# Anti-PAK3 (aa 1-90) polyclonal antibody (DPAB-DC2083)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. The protein encoded by this gene forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of non-syndromic mental retardation X-linked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47). Alternatively spliced transcript variants encoding different isoforms have been identified.
<b>Immunogen</b>	PAK3 (NP_002569, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. The sequence is MSDGLDNEEKPPAPPLRMNSNDRSSALNHSSKPLPMAPEEKNKKARLRSIFPGGGDKTN KKKEKERPEISLPDFEHTIHVGFDVAVTGE
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

Gene Name	<a href="#">PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [ Homo sapiens (human) ]</a>
Official Symbol	PAK3
Synonyms	PAK3; p21 protein (Cdc42/Rac)-activated kinase 3; bPAK; MRX30; MRX47; OPHN3; hPAK3; CDKN1A; PAK3beta; serine/threonine-protein kinase PAK 3; PAK-3; beta-PAK; oligophrenin-3; p21-activated kinase 3; p21 (CDKN1A)-activated kinase 3;
Entrez Gene ID	<a href="#">5063</a>
Protein Refseq	<a href="#">NP_001121638</a>
UniProt ID	<a href="#">B2RCU6</a>
Chromosome Location	Xq23
Pathway	Activation of Rac; Developmental Biology; Focal Adhesion; G13 Signaling Pathway
Function	ATP binding; MAP kinase kinase activity; Rho GTPase binding; SH3 domain binding