

**PAK3 (N-term) Rabbit Monoclonal Antibody  
Product Data Sheet**

**Catalog # 1717-1**

**Clone ID:** EP797Y      **Lot #:** YD041402  
**Quantity:** 100 µl  
**Type:** Rabbit Monoclonal IgG  
**Species Cross-reactivity:** + Human + Mouse + Rat  
**Applications:** + WB + IHC + ICC + Flow Cytometry + IP  
**Molecular Wt.:** 65 kDa  
**UniProt ID:** O75914

**Background:** p21-activated kinase 3 (PAK3) is a member of a family of serine/threonine protein kinase defined by their interaction with the small GTPases, Cdc42 and Rac (1-2). The PAK proteins can be essentially divided into two categories, group I (PAK1, PAK2 and PAK3) and group II (PAK4, PAK5 and PAK6), based on their structures (3). All six PAKs play an important role in diverse cellular processes, including cytoskeletal dynamics, growth/apoptotic signal transduction through MAP kinases, and regulation of transcription factors (4). PAK3 as well as PAK1 are mostly expressed in the nervous system and particularly in the hippocampus, in which they show a diffuse distribution throughout the soma and proximal dendrites (5). Mutations in PAK3 have been linked to nonsyndromic X-linked mental retardation (6).

**Specificity:** A synthetic peptide corresponding to residues in the N-terminus of human PAK3 was used as immunogen.

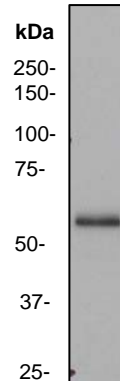
**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

**Recommended Dilutions:**

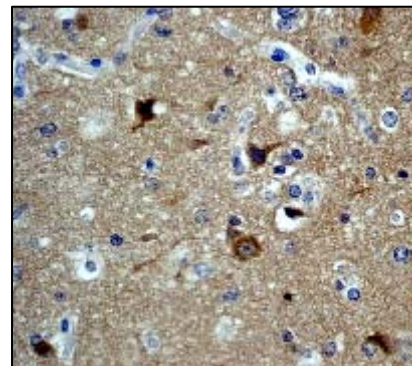
WB: 1:10,000-50,000  
IHC: 1:100-250  
ICC: 1: 100-250  
IP: 1:50

**Background References:**

1. Manser, E., Leung, T., Salihuddin, H., Zhao, Z., and Lim, L. (1994) Nature 363, 364-367
2. Daniels, R. H., and Bokoch, G. M. (1999) Trends Biochem. Sci. 24, 350-355
3. Jaffer, Z. M., and Chernoff, J. (2002) Int. J. Biochem. Cell Biol. 34, 713-717
4. Lim, L., Manser, E., Leung, T., and Hall, C. (1996) Eur. J. Biochem. 242, 171-185
5. Knaus, U. G., and Bokoch, G. M. (1998) Int. J. Biochem. Cell Biol. 30, 857-862
6. Allen et al. Nature Genet. 20: 25-30, 1998.



**Fig 1.** Western blot analysis on fetal brain lysate using anti-PAK3 (N-term) RabMAb (cat. # 1717-1), dilution 1:50,000



**Fig 2.** Immunohistochemical analysis of paraffin-embedded human brain glioma using anti-PAK-3 (N-term) RabMAb (cat. # 1717-1).

Product QC'd by: \_\_\_\_\_

**For research use only. Not for use in diagnostic or therapeutic applications.**

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit us at [www.epitomics.com](http://www.epitomics.com).