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PAK3 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant PAK3.
Catalog # AT3174a

Product Information

Application	WB, IF
Primary Accession	O75914
Other Accession	NM_002578
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1H7
Calculated MW	62310

Additional Information

Gene ID	5063
Other Names	Serine/threonine-protein kinase PAK 3, Beta-PAK, Oligophrenin-3, p21-activated kinase 3, PAK-3, PAK3, OPHN3
Target/Specificity	PAK3 (NP_002569, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PAK3 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

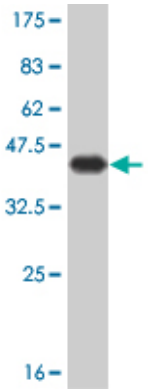
Background

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.

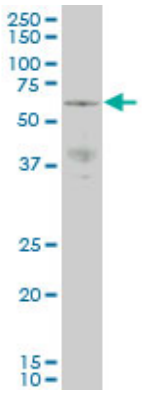
References

1.A 14-3-3?^ dimer-based scaffold bridges CtBP1-S/BARS to PI(4)KIII?] to regulate post-Golgi carrier formation.Valente C, Turacchio G, Mariggio S, Pagliuso A, Gaibisso R, Di Tullio G, Santoro M, Formiggini F, Spano S, Piccini D, Polishchuk RS, Colanzi A, Luini A, Corda D.Nat Cell Biol. 2012 Feb 26. doi: 10.1038/ncb2445. [Epub ahead of print]

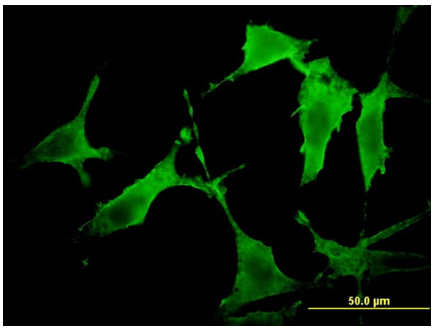
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



PAK3 monoclonal antibody (M07), clone 1H7 Western Blot analysis of PAK3 expression in NIH/3T3 ((Cat # AT3174a)



Immunofluorescence of monoclonal antibody to PAK3 on NIH/3T3 cell. [antibody concentration 10 ug/ml]