

For Research Use Only

DOCK3; MOCA Polyclonal antibody

Catalog Number: 20683-1-AP

2 Publications



Basic Information

Catalog Number: 20683-1-AP	GenBank Accession Number: NM_004947	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 900 µg/ml by Nanodrop and 487 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1795	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:50-1:500
Source: Rabbit	Full Name: dedicator of cytokinesis 3	
Isotype: IgG	Calculated MW: 233 kDa	
	Observed MW: 233 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse brain tissue, human brain tissue, SH-SY5Y cells, rat brain tissue IHC : mouse brain tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Dedicator of cytokinesis 3 (DOCK3), also named as MOCA and PBP, is a ~180 kDa protein involved in signaling trasduction. It is a potential guanine nucleotide exchange factor (GEF) which activate some small GTPases by exchanging bound GDP for free GTP. DOCK3 is associated in Alzheimer disease tangles and regulates the accumulation of amyloid precursor protein and beta-amyloid. Overexpression of Dock3 in neural cells promotes axonal outgrowth downstream of brain-derived neurotrophic factor (BDNF) signaling. DOCK3 binds to and inactivates glycogen synthase kinase-3β (GSK-3β) at the plasma membrane, thereby promoteing axon branching and microtubule assembly. By stimulating actin polymerization and microtubule assembly, DOCK3 plays important roles downstream of BDNF signaling in the CNS.

Notable Publications

Author	Pubmed ID	Journal	Application
Hua Qu	33627322	Diabetes	WB
Xingli Zhu	25687035	Int J Biochem Cell Biol	WB

Storage

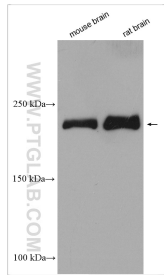
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

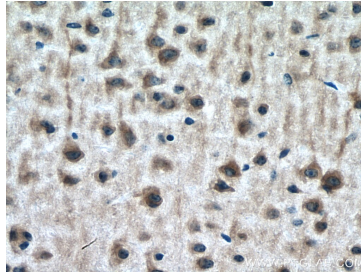
For technical support and original validation data for this product please contact:
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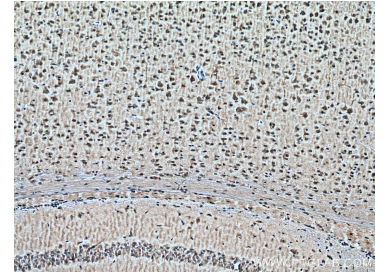
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20683-1-AP (DOCK3; MOCA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20683-1-AP (DOCK3; MOCA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20683-1-AP (DOCK3; MOCA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).