## For Research Use Only

## RAC1/2/3 Polyclonal antibody

Catalog Number:16117-1-AP

Featured Product

9 Publications

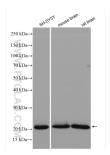


Size:   Gene[D(NCB)]:   Provide Comparison (Source)     150ul., Concentration: SOurce (M)   Seal   Provide Comparison (Source)     Nanodo (SA as the standard:   Seal   Provide Comparison (Source)     Source:   Supervise:   Supervise:   Provide Comparison (Source)     Rabbit   rs-related C3 botalinum toxin   Provide Comparison (Source)   Provide Comparison (Source)     Logyce:   Supervise:   Supervise:   Provide Comparison (Source)   Provide Comparison (Source)     Acgous   Provide Comparison (Source)   Provide Comparison (Source)   Provide Comparison (Source)     Applications:   W8, HC, IP, EUSA   W8: SH-SYSY cells, human brain tissue, mouse brain tissue,   Provide Comparison (Source)     Species Specificity:   Human, mouse, rat   Provide Comparison (Source)   Provide Comparison (Source)     Mathematical moves, rat   Cited Applications:   W8: SH-SYSY cells, human brain tissue,   Provide Comparison (Source)     Background Information   Res 1: a CTPase that belongs to the RAS superfamily of small CTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cycoskleteal moves protein identity but differ for their pattern of expression. Rac 1: subjactions. Rac 1	Basic Information	Catalog Number: 16117-1-AP	GenBank Accession Number: BC015197	Purification Method: Antigen affinity purification	
1504_Concentration:S00 ug/mb by Bandford method using BSA as the standard; Bobbit   UNIPROT ID: PROYSA: UNIPROT ID: PROYSA				Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
method using BSA as the standard; Poorsis IHC 150-1500   Source: Full Name: Full Name:   Rabbit ras-related C3 boulinum toxin   Isotype: substrate 3 (fno family, small GTP)   IgG binding protein Racs)   Immunogen Catalog Number: Calculated MW:   AC9045 192 as, 21 lob   Observed MW: 21 kDa   Poplications: Positive Controls:   WB, IHC, IP, EUSA WB: SH5VSY cells, human brain tissue, mouse brain tissue, at the at tissue diverse array of cellular events, including the control of cell growth, cytoseletcal   Background Information Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appert to regulate a diverse array of cellular events, including the control of cell growth, cytoseletcal   mana, mouse Note-IHC: suggested antigen retrieval with citrate buffer ph Her 0   Background Information Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appert to regulate a diverse array					
Jonch Full Name   Rabbit ra-related 25 bottlinum toxin   Isotype: substrate 3 (ho family, small GTP   IgG binding protein Ras.)   Immunogen Catalog Number: Calculated MW:   AG9025 192 a, 21 kDa   Observed MW: 21 kDa   WB, IHC, IP, EUSA WB: SH-SYSY cells, human brain tissue, mouse brain   Cited Applications: WB: SH-SYSY cells, human brain tissue, mouse brain   Species Specificity: IP: mouse brain tissue,   Human, mouse, rat IHC: mouse brain tissue,   Maper to the differ pH 6.0 Postive Controls:   Background Information Ras is a GPD set the belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the reat the Rac gene in marmals, which share over Sg protein kinass.   Background Information Ras is a GPD set the belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the centre of cell growth, stokdetal margenization, and the activation of protein kinass.   Notable Publications: Author   Pubmed ID Journal   Author Pubmed ID   Journal Application   Storage Storage   Storage Storage   Storage Storage		method using BSA as the standard; Source:	UNIT KUT ID.		
Isorype: substrate 3 (in 6 family, small GTP binding protein Rac3)   Immunogen Catalog Number: Calculated MW: 21 kDa   Agoods 192 a, 21 kDa   Observed MW: 21 kDa Diserved MW: 21 kDa   Applications: WB: SHSYSY cells, human brain tissue, mouse brain tissue, rat brain tissue, WB, IP   Species Specificity: human, mouse WB, IP IP: mouse brain tissue, IHC : mouse brain tissue, HC : mouse brain tissue, WB, IP   Species Specificity: human, mouse Wot-IHC: suggested antigen retrieval with TE buffer pH 5.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be aperformed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be aperformed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be aperformed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be aperformed with citrate buffer pH 5.0; (*) Alternatively, antigen retrieval may be aperformed with citrate buffer buffer phere approxes system. This antibody can recognize Rac1, Rac2, and Rac3.   Notable Publications Author Pubmed ID Journal Application   Bian J Rosenberg 28356423 Mol Biol Cell WB   Storage Storage Storage Storage Storage VB					
AG9045   192 aa, 21 kDa     Observed MM: 21 kDa   Diserved MM: 21 kDa     Applications   Tested Applications: WB, HC, IP, EUSA Cited Applications: WB, IP   Positive Controls: WB, SH-SYSY cells, human brain tissue, mouse brain tissue, rat brain tissue, in the control of the second secon		20 C	substrate 3 (rho family, small GTP		
Applications Tested Applications: WB, IHC, IP, EUSA Cited Applications: WB, IP Positive Controls: WB: SHSYSY club, human brain tissue, mouse brain tissue, rate brain tissue, IP: mouse brain tissue, IB: m					
WB, IHC, IP, ELISA   WB: SH-SYSY cells, human brain tissue, mouse brain tissue, rat brain tissue, issue, rat brain tissue,     Species Specificity:   IP: mouse brain tissue,     human, mouse, rat   IHC: mouse brain tissue,     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   Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse aray of cellular events, including the control of cell growth, cytoskeletal recognization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90 protein identity but differ for their pattern of expression. Rac1 is ubiquitous. Rac2 is specific for hematopoletic cel while Rac3 is prevalent in the developing nervous system. This antibody can recognize Rac1, Rac2, and Rac3.     Notable Publications   Author   Pubmed ID   Journal   Application     Brian J Rosenberg   28356423   Mol Biol Cell   WB     Storage   Storage   Storage   Storage   WB     PB with 0.02% sodium azide and 50% glycerol pH 7.3.   PB Storage baffer:   WB					
We, Hr., IP, EUSA   We: SH-SYSY cells, human brain tissue, mouse brain tissue, mouse brain tissue, at brain tissue, mouse brain tissue, weight of the second seco	Applications		Positive Co	Positive Controls:	
WB, IP   IP::::::::::::::::::::::::::::::::::::					
Species Specificity:   IHC : mouse brain tissue,     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   Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90 protein in dentity but differ for their pattern of expression. Rac1 is ubiquitous, Rac2 is specific for thematopoietic cell while Rac3 is prevalent in the developing nervous system. This antibody can recognize Rac1, Rac2, and Rac3.     Notable Publications   Author   Pubmed ID   Journal   Application     Brian J Rosenberg   28356423   Mol Biol Cell   WB     Erika Di Biase   32198666   Glycoconj J   WB     Storage   Storage:   Storage:   Storage     Storage Buffer:   PBW with 029% sodium azide and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C storage					
human, mouse     Note-IHC: suggested antigen retrieval with     TE buffer pH 9.0; (*) Alternatively, antigen     buffer pH 9.0; (*) Alternatively, antigen     buffer pH 6.0     Background Information     Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90 protein identity but differ for their pattern of expression. Rac1 is ubiquitous, Rac2 is specific for hematopoietic ce while Rac3 is prevalent in the developing nervous system. This antibody can recognize Rac1, Rac2, and Rac3.     Notable Publications   Author   Pubmed ID   Journal   Application     Brian J Rosenberg   28356423   Mol Biol Cell   WB     Erika Di Biase   32198666   Glycoconj J   WB     Storage:   Storage:   Storage:   Storage With 022% sodium azide and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C Storage					
TE buffer pH 9.0; (*) Alternatively, antigen     retrieval may be performed with citrate     buffer pH 6.0     Background Information     Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90 protein identity but differ for their pattern of expression. Rac1 is ubiquitous, Rac2 is specific for hematopoietic ce while Rac3 is prevalent in the developing nervous system. This antibody can recognize Rac1, Rac2, and Rac3.     Notable Publications   Author   Pubmed ID   Journal   Application     Brian J Rosenberg   28356423   Mol Biol Cell   WB     Erika Di Biase   32198666   Clycoconj J   WB     Storage:   Storage:   Storage:   Storage     Storage With 0.02% sodium azide and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C storage   Kac					
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Brian J Rosenberg   28356423   Mol Biol Cell   WB     Erika Di Biase   32198666   Glycoconj J   WB     Sira A Franchi   29358905   Front Cell Neurosci   WB     Storage:   Storage:   Storage and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C storage	Background Information	reorganization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90% protein identity but differ for their pattern of expression. Rac1 is ubiquitous, Rac2 is specific for hematopoietic cells			
Erika Di Biase   32198666   Glycoconj J   WB     Sira A Franchi   29358905   Front Cell Neurosci   WB     Storage:   Storage:   Storage after shipment.   Storage Buffer:     PBS with 0.02% sodium azide and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C storage   Aliquoting is unnecessary for -20°C storage	Notable Publications	Author Put	omed ID Journal	Application	
Storage:   Storage:   Storage at -20°C. Stable for one year after shipment.   WB     Storage Buffer:   PBS with 0.02% sodium azide and 50% glycerol pH 7.3.   Aliquoting is unnecessary for -20°C storage		Brian J Rosenberg 283	Mol Biol Cell	WB	
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		Erika Di Biase 32:	198666 Glycoconj J	WB	
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		Sira A Franchi 29	558905 Front Cell Neuros	ci WB	
	Storage	Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol pH 7.3.		
	*** 20ul sizes contain 0.1% BSA	Auquoung is unnecessary for -20 C S	rolage		
	For technical support and original validation da	ta for this product please contact:	This product	is exclusively available under Proteinte	

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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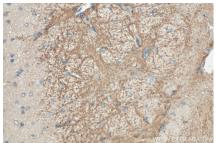
## Selected Validation Data



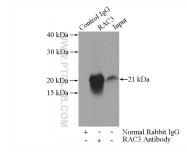
Various lysates were subjected to SDS PAGE followed by western blot with 16117-1-AP (RAC 1/2/3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 16117-1-AP (RAC 1/2/3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 16117-1-AP (RAC 1/2/3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RAC1/2/3 (IP:16117-1-AP, 3ug; Detection:16117-1-AP 1:500) with mouse brain tissue lysate 2640ug.