For Research Use Only

## GLUT1 Polyclonal antibody Catalog Number: 21829-1-AP Featured Product

in USA), or 1(312) 455-8498 (outside USA)

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Featured Product 321 Publications



Basic Information	Catalog Number: 21829-1-AP	GenBank Accession Number: BC 121804		Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG16282	UNIPROT ID: P11166 Full Name:		Recommended Dilutions: WB: 1:1000-1:8000 IHC: 1:2500-1:10000 IF-P: 1:1000-1:4000 IF/ICC: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension	
Applications	Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA Cited Applications: WB, IHC, IF, ChIP Species Specificity: human, mouse, rat		Positive Con	Positive Controls:	
			WB : unboiled HT-29 cells, 37°C incubated mouse colo tissue		
			IHC : rat brain tissue, human lung cancer tissue, huma cervical cancer tissue, human breast cancer tissue		
			IF-P : mouse brain tissue,		
	Cited Species: human, mouse, rat, pig, rabbit, goat, l	asiopodomys	IF/ICC : HeLa	ICC : HeLa cells,	
	brandtii		FC (Intra) : H	eLa cells,	
	retrieval may be performed w buffer pH 6.0				
Background Information	of glucose uptake in most cell types. SLC2A1 are the cause of GLUT1 defic reported to be a reliable immunohist two or more distinct forms among 43 highly glycosylated form of GLUT1 to	Human erythrocy iency syndrome ty tochemical marke kDa to 55 kDa du b less glycosylated	expressed glucose transporter and responsible for the basal level rocytes express the highest level of the SLC2A1. Defects in me type 1 and type 2. High expression of SLC2A1 has been arker for juvenile hemangiomas. GLUT1 protein may appear as a due to the different glycosylation state. And the conversion of lated form has been reported to correlate to differentiation (PMID: so detect the 25 kDa degradation protein in SDS-PAGE		
Notable Publications	Author Pub	med ID Jo	ournal	Application	
			1ol Med Rep		
			arcinogenesis		
	Teresa W-M Fan 361	50727 J	Immunol		
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50	·	47.3		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	storage			
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ta for this product please contact: E: proteintech@ptglab.com			exclusively available under Proteintech nd is not available to purchase from any	

other manufacturer.

## Selected Validation Data



HT-29 cell lysates (boiled or unboiled) were subjected to SDS PAGE followed by western blot with 21829-1-AP (GLUT1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 21829-1-AP (GLUT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GLUT1 (21829-1-AP)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded rat brain tissue slide using 21829-1-AP (GLUT1 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GLUT1 antibody (21829-1-AP) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GLUT1 antibody (21829-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).