For Research Use Only

Glypican 4 Polyclonal antibody

Catalog Number:13048-1-AP

Featured Product

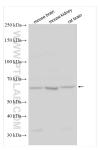
16 Publications



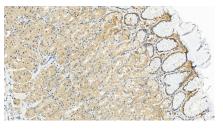
Basic Information	Catalog Number: 13048-1-AP	GenBank Accession BC017166	Number:	Purification Method: Antigen affinity purification		
	Size:	GenelD (NCBI):		Recommended Dilutions:		
	650 ug/ml	2239		WB 1:2000-1:100		
	Source: Rabbit	UNIPROT ID: 075487		IHC 1:500-1:2000 IF/ICC 1:200-1:80		
	Isotype: IgG					
	Immunogen Catalog Number: AG3670	Calculated MW: 556 aa, 62 kDa				
		Observed MW: 62 kDa				
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA		Positive Cont	Positive Controls:		
	Cited Applications:		WB : mouse b tissue	WB : mouse brain tissue, mouse kidney tissue, rat brai tissue		
	WB, IHC, IF		IHC : human s	: human stomach tissue,		
	Species Specificity: human, mouse, rat		IF/ICC : U-251 cells,			
	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	Glypicans (GPCs) are a family of glycosylphosphatidylinositol (GPI)-anchored heparan sulphate proteoglycans (HSPGs) that may play a role in the control of cell division and growth regulation (PMID: 9931407). In mammals, there are six GPCs (GPC1 to GPC6), all of which have a similar core-protein size of approx. 60 kDa and the clustering of glycosaminoglycan attachment site near the C-terminus (PMID: 10585884). They are tethered to the cell surface by GPI linkages, which can be cleaved by endogenous phospholipases, thus releasing the protein. Human GPC4 is a 556-amino acid protein, and shows 93.5% identity to mouse K-glypican. The gene of GPC4 has been mapped to Xq26, and its mRNA is widely expressed in human tissues, including lung, kidney, heart, placenta, skeletal muscle, and pancreas. GPC4 has also been shown to be present in astrocytes, haematopoietic-progenitor and bone-marrow-stromal cells. Studies suggest that GPC4 is involved in the regulation of Wnt signaling and astrocyte GPC4 plays a role in formation of excitatory synapses (PMID: 22302992; 22722203). This antobody can recognize both full length (65 kDa) and cleaved (35 kDa) GPC4 as well as GPC6 (PMID: 18055828; 22722203).					
Notable Publications	(65 kDa) and cleaved (35 kDa) GF	PC4 as well as GPC6 (PMI	D: 18055828; 227		gnize both full length	
Notable Publications	(65 kDa) and cleaved (35 kDa) GF	PC4 as well as GPC6 (PMI Pubmed ID Jou	D: 18055828; 227	222203).	gnize both full length Application	
Notable Publications	(65 kDa) and cleaved (35 kDa) GF Author Yan Xiong	PC4 as well as GPC6 (PMI Pubmed ID Jou 27425250 Bio	D: 18055828; 227 Irnal chem Biophys Re	222203).	gnize both full length Application WB,IF	
Notable Publications	(65 kDa) and cleaved (35 kDa) GF	Pubmed ID Jou 27425250 Bio 34494546 Elit	D: 18055828; 227 Irnal chem Biophys Re	222203).	gnize both full length Application	
Notable Publications Storage	(65 kDa) and cleaved (35 kDa) GF Author Yan Xiong Isabella Farhy-Tselnicker	Pubmed ID Jou 27425250 Bio 34494546 Elit	D: 18055828; 227 Irnal chem Biophys Re	222203).	Application WB,IF WB	

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

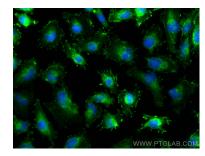
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13048-1-AP (Glypican 4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human stomach tissue slide using 13048-1-AP (Glypican 4 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using Glypican 4 antibody (13048-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).