For Research Use Only

SLC1A5/ASCT2 Monoclonal antibody

Catalog Number:68540-1-lg

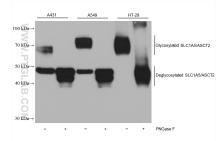


Basic Information	Catalog Number: 68540-1-lg	GenBank Accession N BC000062	umber:	Purification Method: Protein G purification				
	Concentration: 1000 ug/ml	Genel D (NCBI): 6510		CloneNo.: 1C4E1				
	Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG16837	UNIPROT ID: Q15758 Full Name: solute carrier family 1 (neutral amino acid transporter), member 5 Calculated MW: 541 aa, 57 kDa		Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-Fro 1:1000-1:4000 IF/ICC 1:200-1:800				
					Observed MW: 55-70 kDa			
					Applications	Tested Applications: WB, IHC, IF/ICC, IF-Fro, FC (Intra), ELISA Species Specificity: human		Positive Controls: WB : A431 cells, PNGase F-treated A431 cells, A549 cells, PNGase F-treated A549 cells, HT-29 cells, PNGase F-treated HT-29 cells
		Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IHC : human stomach cancer tissue, IF-Fro : mouse small intestine tissue,				
IF/ICC : HEK-293 cells,								
Background Information	SLC1A5 (Solute Carrier Family 1, member 5), also named as ASCT2, a major glutamine transporter belonging to the SLC1 family and localized in the plasma membrane of several body districts. Consistent with the functions exerted by glutamine, SLC1A5 is involved in uptake of essential amino acids, activation of mTORC1 and glutamine-dependent tumor cell survival and growth. SLC1A5 is highly expressed in various malignancies and plays a critical role in the transformation, growth and survival of cancer cells (PMID: 30234109). High SLC1A5 expression is associated with poor prognosis in clear-cell renal cell carcinoma (PMID: 26599282).							
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer:	after shipment.						

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

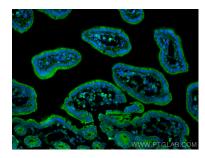
Selected Validation Data



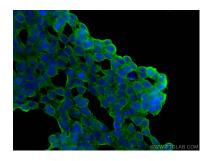
Various lysates were subjected to SDS PAGE followed by western blot with 68540-1-lg (SLC 1A5/ASCT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



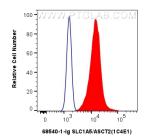
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 68540-1-1g (RDRC antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse small intestine tissue using SLC1A5/ASCT2 antibody (68540-1-Ig, Clone: IC4E1) at dilution of 1:2000 and Coralite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using SLC1A5/ASCT2 antibody (68540-1-Ig, Clone: 1C4E1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human SLC1A5/ASCT2 (68540-1-Ig, Clone:1C4E1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgC(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).