

For Research Use Only

SH3TC2 Polyclonal antibody

Catalog Number: 27905-1-AP



Basic Information

Catalog Number: 27905-1-AP	GenBank Accession Number: BC113879	Purification Method: Antigen affinity purification
Concentration: 700 ug/ml	GeneID (NCBI): 79628	Recommended Dilutions: IHC: 1:50-1:500 IF/ICC: 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8TF17	
Isotype: IgG	Full Name: SH3 domain and tetratricopeptide repeats 2	
Immunogen Catalog Number: AG27352	Calculated MW: 1288 aa, 145 kDa	

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human placenta tissue, human stomach cancer tissue

IF/ICC : U2OS cells,

Background Information

The SH3TC2 protein (also known as KIAA1985 protein) is an adaptor protein involved in myelin formation in the peripheral nervous system. This protein contains multiple functional domains, including the SH3 (Src homology 3) and TPR (tetratricopeptide repeat) domains, which mediate protein-protein interactions. It is highly expressed in Schwann cells and is crucial for maintaining the stability of myelin structure. Clinically, mutations in the SH3TC2 gene are associated with Charcot-Marie-Tooth disease type 4C (CMT4C), an autosomal recessive peripheral neuropathy characterized by progressive demyelination of motor and sensory nerves, limb weakness, and loss of sensation. Studies have shown that the absence or dysfunction of SH3TC2 protein can lead to disordered signaling pathways in Schwann cells (such as Rab11-mediated membrane transport defects), affecting myelin development and repair.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

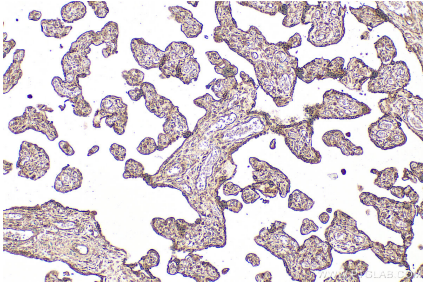
T: 4006900926

E: Proteintech-CN@ptglab.com

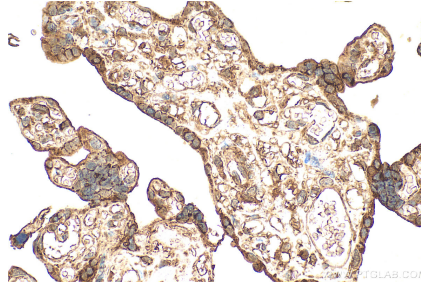
W: ptgcn.com

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

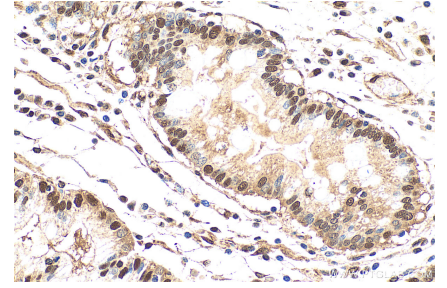
Selected Validation Data



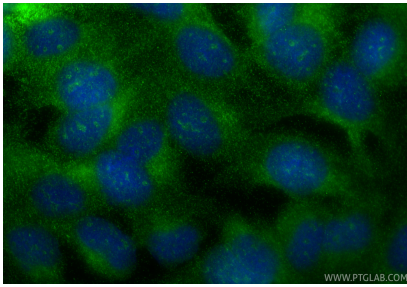
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 27905-1-AP (SH3TC2 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



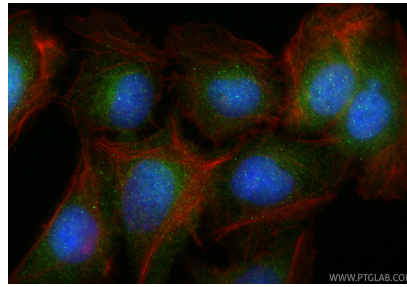
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 27905-1-AP (SH3TC2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27905-1-AP (SH3TC2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using SH3TC2 antibody (27905-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SH3TC2 antibody (27905-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).