

For Research Use Only

Syntaxin 12 Polyclonal antibody

Catalog Number: 14259-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 14259-1-AP	GenBank Accession Number: BC046999	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	GeneID (NCBI): 23673	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: syntaxin 12	
Isotype: IgG	Calculated MW: 32 kDa	
Immunogen Catalog Number: AG5532	Observed MW: 33-39 kDa, 66 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
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:

WB : HEK-293 cells, human brain tissue, human heart tissue, BxPC-3 cells, mouse heart tissue, mouse brain tissue, mouse kidney tissue

IHC : human lung cancer tissue, human kidney tissue, mouse brain tissue, human pancreas tissue

IF : HepG2 cells,

Background Information

Syntaxin 12 (STX12), also known as STX13 or STX14, is a 276 amino acid single-pass type IV membrane protein that belongs to the syntaxin family. It is a broadly and differentially expressed SNARE protein, highly enriched in brain tissue. STX12 is localized to early and recycling endosomes and is involved in the recycling of plasma membrane proteins. It also has a role in the trafficking of MMP during degradation of ECM substrates and subsequent cellular invasion. (PMID: 9507000; 9553086; 19910495) This antibody recognizes a major 39 kDa band of endogenous STX12. In some cases, two additional bands of 33 kDa and 66 kDa could also be detected, which most likely represent a degradation product and a SNARE complex respectively (PMID: 9817754).

Notable Publications

Author	Pubmed ID	Journal	Application
Yajing Lv	33186350	PLoS Biol	WB
Hana Nůsková	37495107	J Biol Chem	WB
Lu Yubing Y	24095276	Mol Cell	WB,IF

Storage

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

*** 20ul sizes contain 0.1% BSA

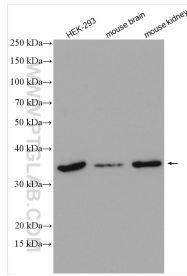
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

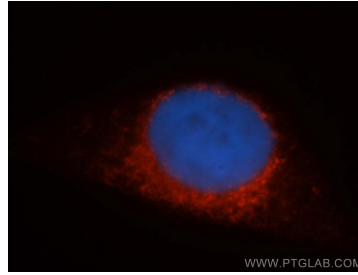
E: proteintech@ptglab.com
W: ptglab.com

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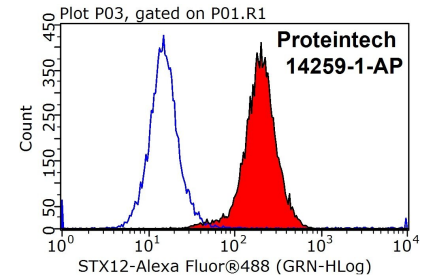
Selected Validation Data



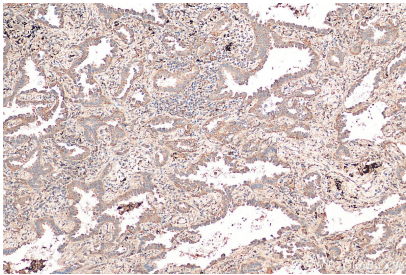
Various lysates were subjected to SDS PAGE followed by western blot with 14259-1-AP (Syntaxin 12 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



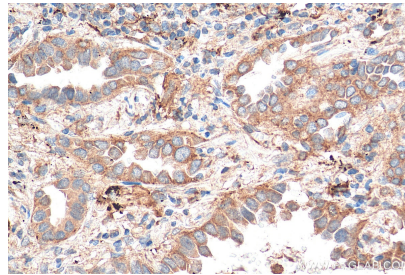
Immunofluorescent analysis of HepG2 cells, using STX12 antibody 14259-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



1×10^6 HepG2 cells were stained with 0.2ug Syntaxin 12 antibody (14259-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:100.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14259-1-AP (Syntaxin 12 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14259-1-AP (Syntaxin 12 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).