

**KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2416****Specification****KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody - Product Information**

|                   |                                           |
|-------------------|-------------------------------------------|
| Application       | WB, FC, ICC                               |
| Primary Accession | <a href="#">P56962</a>                    |
| Reactivity        | Rat, Human                                |
| Clonality         | Monoclonal                                |
| Isotype           | Mouse IgG1                                |
| Calculated MW     | Predicted, 33 kDa, observed, 34 kDa       |
| Gene Name         | STX17                                     |
| Aliases           | STX17; Syntaxin 17; Syntaxin-17; FLJ20651 |
| Immunogen         | Recombinant protein of human STX17        |

**KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody - Additional Information**

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Gene ID            | 55014                                                      |
| Other Names        |                                                            |
| Syntaxin-17, STX17 | {ECO:0000303 PubMed:21545355, ECO:0000312 HGNC:HGNC:11432} |

**KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody - Protein Information**

**Name** STX17 {ECO:0000303|PubMed:21545355, ECO:0000312|HGNC:HGNC:11432}

**Function**

SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion (PubMed: [23217709](http://www.uniprot.org/citations/23217709), PubMed: [25686604](http://www.uniprot.org/citations/25686604), PubMed: [28306502](http://www.uniprot.org/citations/28306502), PubMed: [28504273](http://www.uniprot.org/citations/28504273)). STX17 is a SNARE of the autophagosome involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane (PubMed: [23217709](http://www.uniprot.org/citations/23217709), PubMed: [25686604](http://www.uniprot.org/citations/25686604), PubMed: [28306502](http://www.uniprot.org/citations/28306502), PubMed: [28504273](http://www.uniprot.org/citations/28504273)). May also play a role in the early secretory pathway where it may maintain the architecture of the endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi and/or regulate transport between the endoplasmic reticulum, the ERGIC and the Golgi (PubMed: [21545355](http://www.uniprot.org/citations/21545355)).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein. Smooth endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z158}; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-pass membrane protein. Cytoplasmic

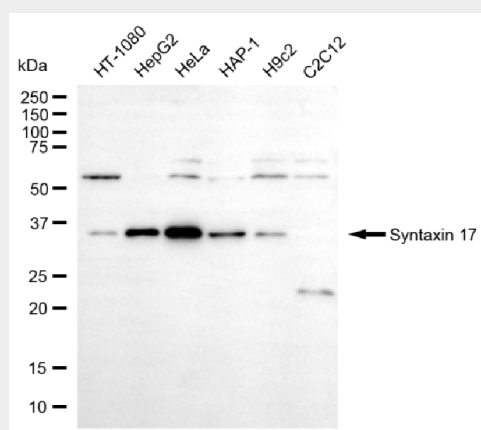
vesicle, autophagosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane {ECO:0000250|UniProtKB:Q9Z158}; Multi-pass membrane protein. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9Z158} Mitochondrion membrane; Multi-pass membrane protein. Autolysosome membrane; Multi-pass membrane protein. Note=Has a hairpin-like insertion into membranes. Localizes to the completed autophagosome membrane upon cell starvation (PubMed:23217709). Colocalized with RAB39A and RAB39B in autolysosomes in autophagy-induced conditions (PubMed:37821429).

## KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

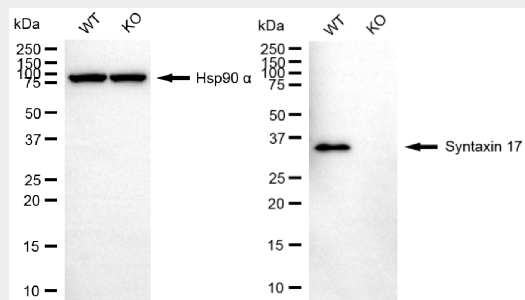
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody - Images



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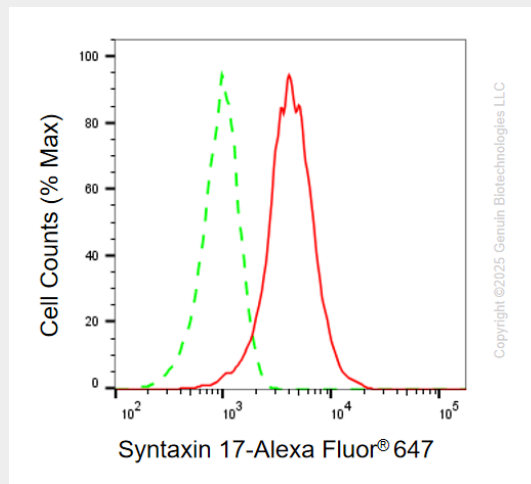
Western blotting analysis using anti-syntaxin 17 antibody (Cat#AGI2416). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-syntaxin 17 antibody (Cat#AGI2416, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



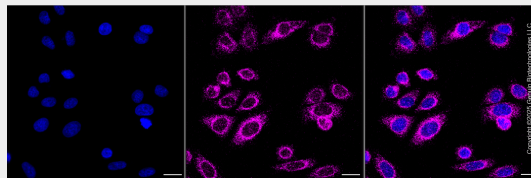
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Western blotting analysis using anti-syntaxin 17 antibody (Cat#AGI2416). Syntaxin 17 expression in wild-type (WT) and syntaxin 17 (STX17) knockout (KO) HeLa cells with 20 µg of total cell

lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-syntaxin 17 antibody (Cat#AGI2416, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of Syntaxin 17 expression in HepG2 cells using anti-Syntaxin 17 antibody (Cat#AGI2416, 1:2,000). Green, isotype control; red, Syntaxin 17.



Immunocytochemical staining of HepG2 cells with anti-Syntaxin 17 antibody (Cat#AGI2416, 1:1,000). Nuclei were stained blue with DAPI; Syntaxin 17 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20  $\mu$ m.