

# KO-Validated Anti-Syntaxin 17 Mouse Monoclonal Antibody

Mouse monoclonal antibody  
Catalog # AGI2416

## Product Information

|                   |                                           |
|-------------------|-------------------------------------------|
| Application       | WB, FC, ICC                               |
| Primary Accession | <a href="#">P56962</a>                    |
| Reactivity        | Rat, Human                                |
| Clonality         | Monoclonal                                |
| Isotype           | Mouse IgG1                                |
| Clone Names       | 24GB15930                                 |
| Calculated MW     | 33403                                     |
| Gene Name         | STX17                                     |
| Aliases           | STX17; Syntaxin 17; Syntaxin-17; FLJ20651 |
| Immunogen         | Recombinant protein of human STX17        |

## Additional Information

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

## 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: <a href="#">23217709</a> , PubMed: <a href="#">25686604</a> , PubMed: <a href="#">28306502</a> ). STX17 is a SNARE of the autophagosome involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane (PubMed: <a href="#">23217709</a> , PubMed: <a href="#">25686604</a> , PubMed: <a href="#">28306502</a> , PubMed: <a href="#">28504273</a> ). 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: <a href="#">21545355</a> ). |
| 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).

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