

## SYT11 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant SYT11.

Catalog # AT4127a

### Product Information

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|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IF, E                 |
| Primary Accession | <a href="#">Q9BT88</a>    |
| Other Accession   | <a href="#">NM_152280</a> |
| Reactivity        | Human                     |
| Host              | Mouse                     |
| Clonality         | monoclonal                |
| Isotype           | IgG1 Kappa                |
| Clone Names       | 40                        |
| Calculated MW     | 48297                     |

### Additional Information

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|                    |                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 23208                                                                                                               |
| Other Names        | Synaptotagmin-11, Synaptotagmin XI, SytXI, SYT11, KIAA0080                                                          |
| Target/Specificity | SYT11 (NP_689493, 84 a.a. ~ 139 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.   |
| Dilution           | WB~~1:500~1000 IF~~1:50~200 E~~N/A                                                                                  |
| Format             | Clear, colorless solution in phosphate buffered saline, pH 7.2 .                                                    |
| Storage            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                            |
| Precautions        | SYT11 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures. |

### Background

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This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that are known calcium sensors and mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. The encoded protein is also a substrate for ubiquitin-E3-ligase parkin. The gene has previously been referred to as synaptotagmin XII but has been renamed synaptotagmin XI to be consistent with mouse and rat official nomenclature.

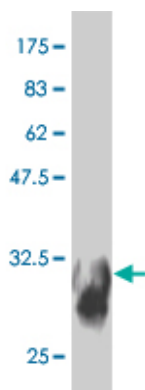
### References

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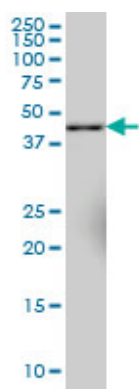
Pharmacogenetics of antipsychotic response in the CATIE trial: a candidate gene analysis. Need AC, et al. Eur J Hum Genet, 2009 Jul. PMID 19156168. An empirical framework for binary interactome mapping. Venkatesan

K, et al. Nat Methods, 2009 Jan. PMID 19060904. Synaptotagmin XI as a candidate gene for susceptibility to schizophrenia. Inoue S, et al. Am J Med Genet B Neuropsychiatr Genet, 2007 Apr 5. PMID 17192956. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. Signal sequence and keyword trap in silico for selection of full-length human cDNAs encoding secretion or membrane proteins from oligo-capped cDNA libraries. Otsuki T, et al. DNA Res, 2005. PMID 16303743.

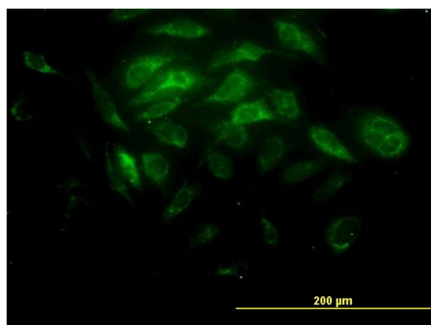
## Images



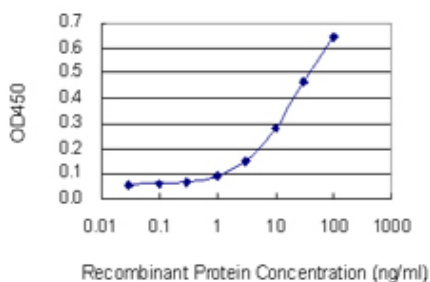
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.9 KDa) .



SYT11 monoclonal antibody (M03), clone 4E1 Western Blot analysis of SYT11 expression in IMR-32 (Cat # AT4127a )



Immunofluorescence of monoclonal antibody to SYT11 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged SYT11 is 0.3 ng/ml as a capture antibody.