

Product datasheet for PH307822

SYT12 (NM_177963) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | SYT12 MS Standard C13 and N15-labeled recombinant protein (NP_808878) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC207822 |
| Predicted MW: | 46.5 kDa |
| Protein Sequence: | >RC207822 protein sequence Red=Cloning site Green=Tags(s) |

MAVDVAEYHLSVIKSPPGWEVGYAAGALALLGIAAVSLWKLWTSFSPSPFPNYDYRYLQQKYGESCAEAREKRVPAWNAQRASTRGPPSRKGSLSIEDTFESISELGPLELMGRELDLAPYGLRKSQSADSLNSISSVSNTFGQDFTLGQVEVSMEYDTASHTLNVAVMQGDLLEREEASFESCFMRVSLLPDEQIVGISRIQRNAYSIFFDEKFSIPLDPTALEEKSLRFSVFGIDEDEKRVSTGVVVELKLSVLDLPLQPFSGWLYLQDQNKAADAVGEILLSLSYLPTAERLTVVVVKAKNLIWTDKTTADPFVKVYLLQDGRKMSKKTAVKRDDPNPVFNEAMIFSVPAIVLQDLSLRVTVAESSSDGRGDNVGHVIGPSASGMGTTHWNQMLATLRRPVSMWHAVRRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_808878</u> |
| RefSeq Size: | 3541 |
| RefSeq ORF: | 1263 |
| Synonyms: | SYT11; sytXII |



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Locus ID: 91683

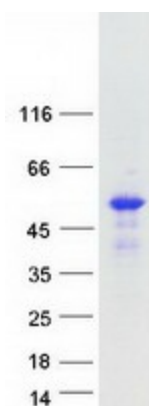
UniProt ID: [Q8IV01](#), [Q8NDM9](#)

Cytogenetics: 11q13.2

Summary: This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. Studies of the orthologous gene in rat have shown that the encoded protein selectively modulates spontaneous synaptic-vesicle exocytosis and may also be involved in regulating calcium independent secretion in nonneuronal cells. Alternative splicing results in multiple transcript variants. The gene has previously been referred to as synaptotagmin XI but has been renamed synaptotagmin XII to be standard with mouse and rat official nomenclature.[provided by RefSeq, Apr 2010]

Protein Families: Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified SYT12 protein (Cat# [TP307822]). The protein was produced from HEK293T cells transfected with SYT12 cDNA clone (Cat# [RC207822]) using MegaTran 2.0 (Cat# [TT210002]).