



## Rabbit Anti-Synaptotagmin XII antibody

SL11398R

<b>Product Name:</b>	Synaptotagmin XII
<b>Chinese Name:</b>	突触Binding protein12抗体
<b>Alias:</b>	SRG1; Synaptotagmin 12; Synaptotagmin XII; Synaptotagmin-12; Syt12; SYT12 HUMAN; SytXII.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	47kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Synaptotagmin XII:301-350/421
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**Function:**

May be involved in  $\text{Ca}^{2+}$ -dependent exocytosis of secretory vesicles through  $\text{Ca}^{2+}$  and phospholipid binding to the C2 domain or may serve as  $\text{Ca}^{2+}$  sensors in the process of vesicular trafficking and exocytosis.

**Subunit:**

Homodimer. Can also form heterodimers

**Subcellular Location:**

Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane.

**Similarity:**

Belongs to the synaptotagmin family.  
Contains 2 C2 domains.

**SWISS:**

Q8IV01

**Gene ID:**

91683

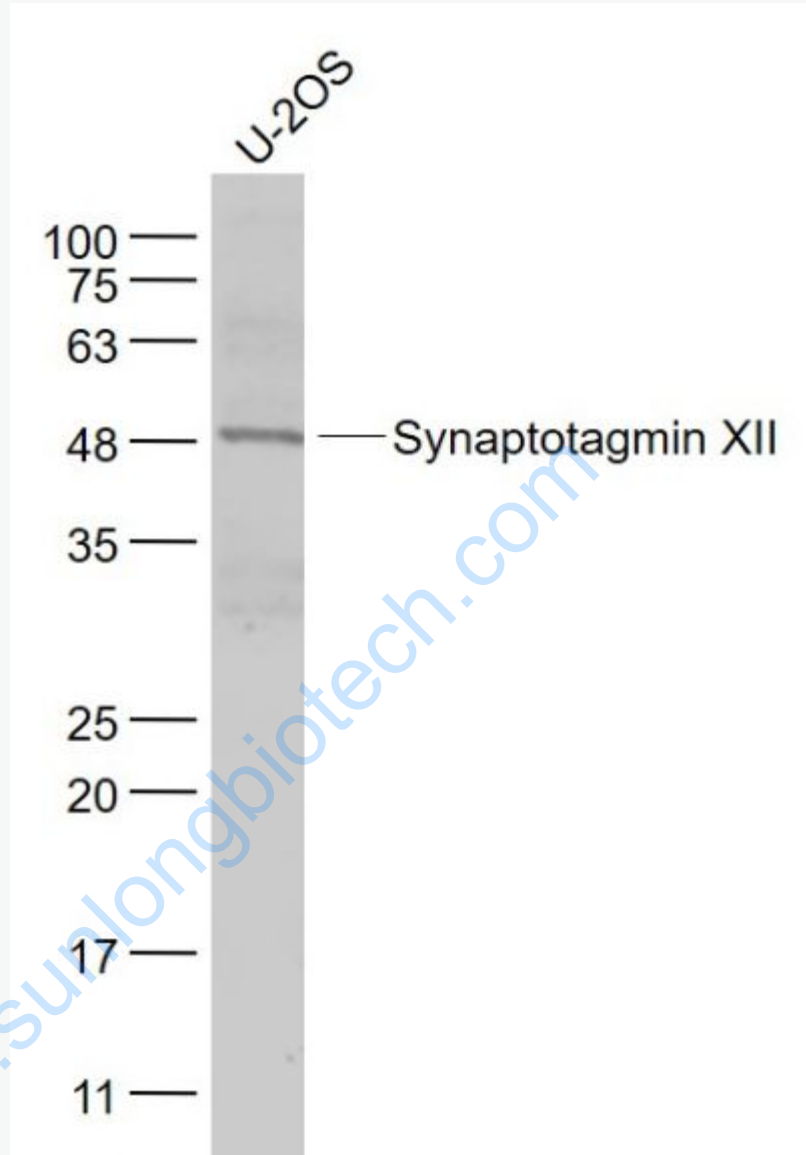
**Database links:**

UniProtKB/Swiss-Prot: Q8IV01.1

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

U-2OS(Human) Cell Lysate at 30 ug

Primary: Anti- Synaptotagmin XII (SL11398R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 47 kD

Observed band size: 48 kD

