

Product datasheet for **AM05628PU-S**

VAMP2 (N-term) Mouse Monoclonal Antibody [Clone ID: 3E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3E5
Applications:	ELISA, ICC/IF, WB
Recommended Dilution:	ELISA. Western blot (1/2,000-1/3,000). Immunohistochemistry on Paraffin Sections (10 µg/ml). This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human Synaptobrevin 2 (1-89 aa) purified from <i>E. coli</i> .
Specificity:	This antibody recognizes specifically Synaptobrevin 2, but it also shows a low affinity to Synaptobrevin 1. Detects a band of approximately 14kDa in rat brain lysates.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	vesicle associated membrane protein 2



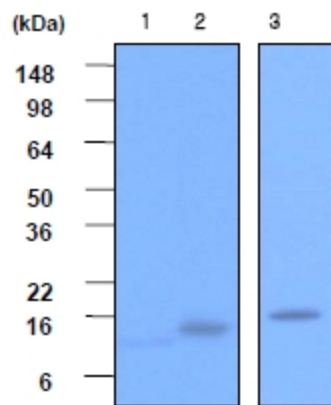
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Database Link: [Entrez Gene 6844 Human P63027](#)

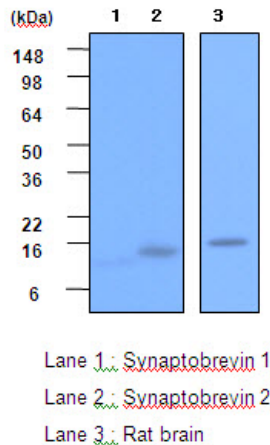
Background: Synaptobrevin 2 (Syb2) also known as vesicle associated membrane protein-2 (VAMP2) is a membrane protein that belongs to the v-SNARE family of proteins, and is an essential component in neurotransmitter exocytosis from the presynaptic membrane. It is expressed on the synaptic vesicle, where it is bound by synaptophysin. Synaptophysin targets the vesicle to the presynaptic membrane and releases Syb2, which forms a stable complex with syntaxin and SNAP-25 (both expressed on the target membrane). Nerve cell depolarization and influx of calcium leads to vesicle fusion and neurotransmitter release into the synapse.

Synonyms: VAMP2, Vesicle-associated membrane protein 2, SYB2

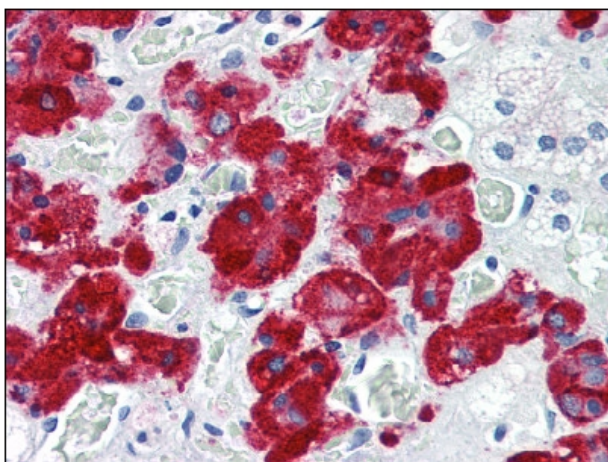
Product images:



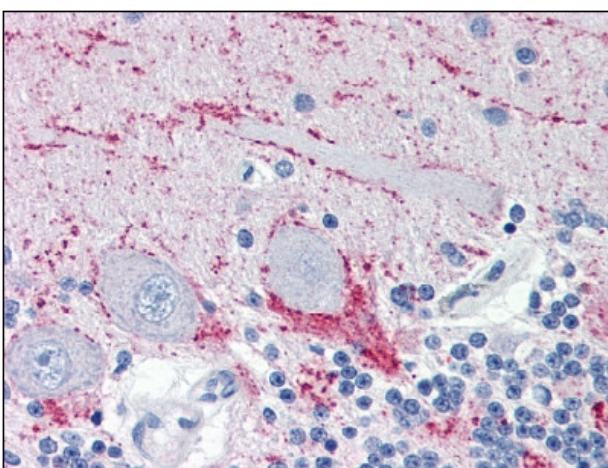
Western Blot analysis: The recombinant Synaptobrevin 1, 2 (each 20ng) and the extracts of Rat brain (20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-Human Synaptobrevin 2 (1/2,000). Proteins were visualized using a goat anti-Mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1: Synaptobrevin 1
Lane 2: Synaptobrevin 2
Lane 3: Rat brain



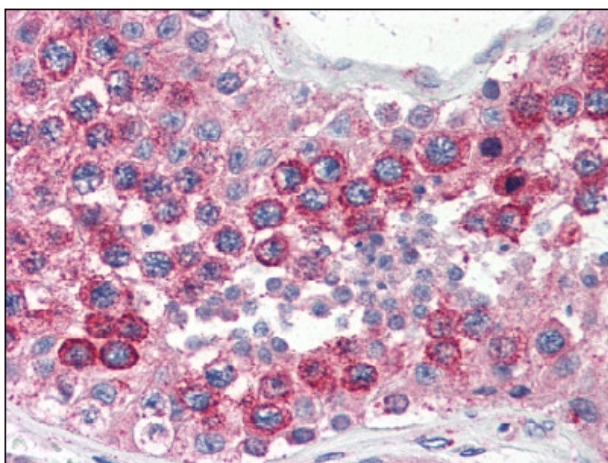
The recombinant Synaptobrevin 1, 2 (each 20ng) and the extracts of Rat brain (20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Synaptobrevin 2 (1:2,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Human Adrenal (formalin-fixed, paraffin-embedded) stained with VAMP2 antibody at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Brain (formalin-fixed, paraffin-embedded) stained with VAMP2 antibody at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Testis (formalin-fixed, paraffin-embedded) stained with VAMP2 antibody at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.