

Monoclonal anti-Synaptobrevin 2 antibody (clone 3E5)

Mouse IgG₁, κ

Cat. No. IBAVA0710

Immunogen: Recombinant human Synaptobrevin 2 (1-89aa) purified from *E. coli*

NCBI Accession No.: NP_055047

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human Synaptobrevin 2 mAb, clone 3E5, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Synaptobrevin 2 protein.

Description: Synaptobrevin 2 (Vesicle-associated membrane, VAMP2), which is an 18 kDa integral membrane protein localized to the cytoplasmic surface of synaptic vesicle, consists of a proline-rich N-terminal region, a highly conserved hydrophilic domain, followed by a transmembrane anchor and a C-terminal tail. Synaptobrevin 2 is predominantly expressed in Langerhans islets and glomerular cells. The N-terminal domain of the protein forms a specific SNARE complex with the target membrane-associated t- or Q-SNAREs syntaxin 1 and SNAP-25. This antibody recognizes specifically synaptobrevin 2, but it also shows a low affinity to synaptobrevin 1.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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Product information

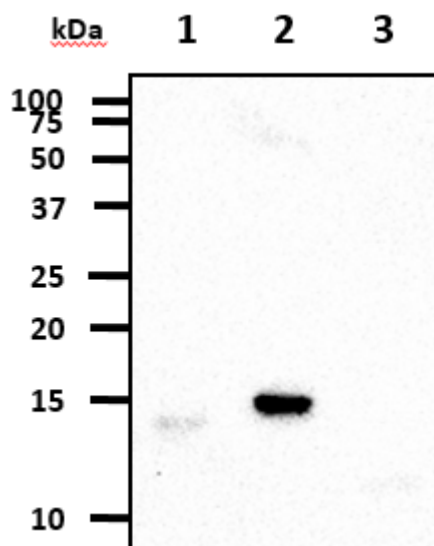
Western blot analysis

The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human synaptobrevin 2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human VAMP1

Lane 2.: Recombinant Human VAMP2

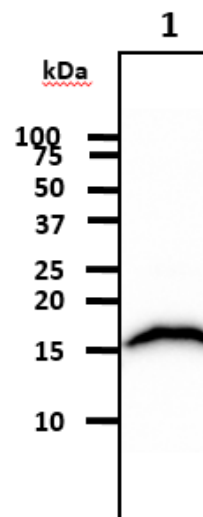
Lane 3.: Recombinant Human VAMP3



Western blot analysis

The mouse brain (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human synaptobrevin 2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

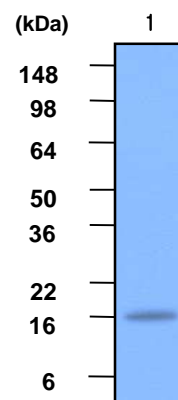
Lane 1.: Mouse brain tissue lysate



Western blot analysis

The rat brain (20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human synaptobrevin 2 antibody (1:2,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

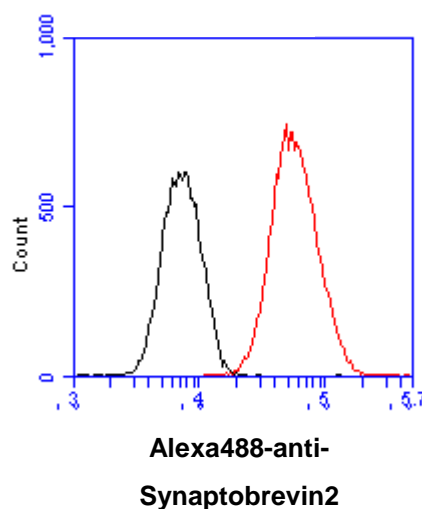
Lane 1.: Rat brain tissue lysate



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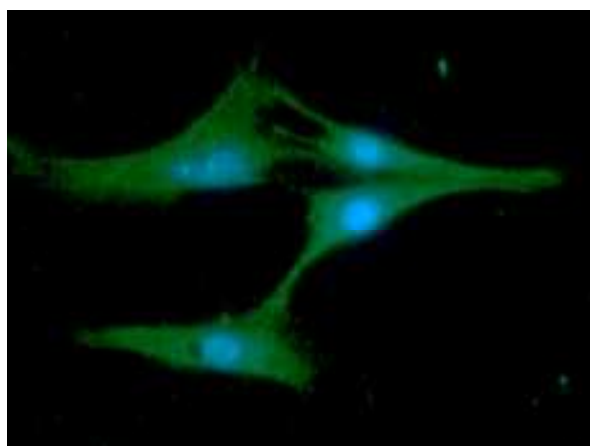
Flow cytometry

Flow cytometry analysis of Synaptobrevin2 in U87MG cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



ICC/IF analysis

ICC/IF analysis of Synaptobrevin2 in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Synaptobrevin2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Andres C *et al.*, (1995) *Proc Natl Acad Sci USA* **92**: 987-5991.
Jacobsson G *et al.*, (1998) *European Journal of Neuroscience* **16**: 301-316.
Scales SJ. *et al* (2002) *J Biol. Chem.* **227(31)**: 28271-28279.
Pennuto M *et al.*, (2003) *Mol Biol Cell.* **14**: 4909-19.

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