

# **Human Syntabulin Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5544

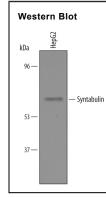
| DESCRIPTION        |  |  |  |
|--------------------|--|--|--|
| Species Reactivity | Human  |  |  |
| Specificity        | Detects human Syntabulin in direct ELISAs and Western blots.   |  |  |
| Source             | Polyclonal Goat IgG  |  |  |
| Purification       | Antigen Affinity-purified  |  |  |
| Immunogen          | <i>E. coli</i> -derived recombinant human Syntabulin<br>Gln489-Arg656<br>Accession # Q9NX95  |  |  |
| Formulation        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |  |  |

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

|              | Recommended<br>Concentration | Sample    |
|--------------|------------------------------|-----------|
| Western Blot | 1 μg/mL                      | See Below |

#### DATA



Detection of Human Syntabulin by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Syntabulin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5544) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Syntabulin at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

## Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Syntabulin (also Golgi-localized synaphilin-related protein) is a 70-75 kDa molecule that belongs to the syntaxin-binding and kinesin-1 family of motor adaptor proteins. It is highly spliced, with various forms associated with different tissues. In neurons, it anchors syntaxin-1 to KIF5B, creating a complex by which synaptic components can be transported to synaptic terminals. Human Syntabulin is a type II transmembrane (TM) protein 663 amino acids (aa) in length. It contains one coiled-coil region (aa 271-353) and a TM domain between aa 606-626. Alternate splice forms show alternate start sites at Met120 and Met207, a five aa substitution for aa 1-8, a 16 aa insertion after Lys8, and an eight aa substitution for aa 1-76. Over aa 486-653, human Syntabulin shares 83% aa identity with mouse Syntabulin.

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