The *S. cerevisiae* protein Sec22p functions as a v-SNARE of transport vesicles and plays a role in both retrograde and anterograde vesicular transport between the Golgi and the endoplasmic reticulum (ER). There are three mammalian homologs to Sec22p, namely SEC22A, SEC22B and SEC22C. SEC22B (SEC22 vesicle trafficking protein homolog B, *S. cerevisiae*), also known as SEC22L1 (SEC22 vesicle-trafficking protein-like 1) or ERS-24, is a single pass type IV membrane protein that belongs to the synaptotubrin family. SEC22B contains one v-SNARE coiled-coil homology domain and one long domain. Localizing to the ER-Golgi intermediate compartment and found on ER-derived vesicles, SEC22B functions as a v-SNARE and is required for ER-Golgi transport. The cognate t-SNARE found on pre-Golgi intermediate compartments is comprised of syntaxin 5, Bet1 and GS27. In addition, SEC22B can be found in SNARE complex with syntaxin 18, Nip1 and USE1 (p31).

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SEC22B (human) mapping to 1q21.1; SEC22b (mouse) mapping to 3 F2.2.

**SOURCE**

SEC22B (29-F7) is a mouse monoclonal antibody raised against a partial recombinant protein mapping within amino acids 1-110 of SEC22B of human origin.

**PRODUCT**

Each vial contains 100 µg IgG<sub>2a</sub> lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

SEC22B (29-F7) is recommended for detection of SEC22B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of SEC22B: 24 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, SW480 cell lysate: sc-2219 or HeLa whole cell lysate: sc-2200.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.