

## VAP-A

Cat.No. 249-0P; control protein, 100 µg protein (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 1 to 223 from human VAP-A (UniProt Id: Q9P0L0)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	249 002, 249 003
Remarks	This control protein consists of the recombinant protein (aa 1-223 of human VAP-A) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of protein needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The VAMP-associated protein **A VAP-A**, also referred to as **VAP-33**, is a ubiquitously expressed type IV membrane protein. It is composed of an N-terminal domain with an immunoglobulin-like β-sheet, a central coiled-coiled domain and a C-terminal transmembrane domain. The protein, which may be involved in vesicle trafficking, is located to the endoplasmic reticulum (ER) and ER/Golgi intermediate compartment (ERGIC). VAP-A has been shown to bind to different v- and t-SNARE proteins. Two other isoforms, VAP-B and VAP-C, have been described in the literature so far.

### Selected General References

- The glycolipid transfer protein interacts with the vesicle-associated membrane protein-associated protein VAP-A.  
Tuuf J, Wistbacka L, Mattjus P  
Biochemical and biophysical research communications (2009) 388(2): 395-9.
- Norwalk virus nonstructural protein p48 forms a complex with the SNARE regulator VAP-A and prevents cell surface expression of vesicular stomatitis virus G protein.  
Ettayebi K, Hardy ME  
Journal of virology (2003) 77(21): 11790-7.
- Vesicle-associated membrane protein-associated protein-A (VAP-A) interacts with the oxysterol-binding protein to modify export from the endoplasmic reticulum.  
Wyles JP, McMaster CR, Ridgway ND  
The Journal of biological chemistry (2002) 277(33): 29908-18.
- VAP-A binds promiscuously to both v- and tSNAREs.  
Weir ML, Xie H, Klip A, Trimble WS  
Biochemical and biophysical research communications (2001) 286(3): 616-21.