

Cat.No. 187-0P; control protein, 100 µg protein (lyophilized)**Data Sheet**

Reconstitution/	100 µg protein, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Storage	
Immunogen	Recombinant protein corresponding to AA 4 to 232 from human P31 (UniProt Id: Q9NZ43)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	187 003
Remarks	This control protein consists of the recombinant protein (aa 4 - 232 of human p 31) 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**

Distinct sets of SNARE proteins mediate membrane-membrane fusion events between different intracellular compartments. **P 31**, a **Use 1** homolog, is a Qc-SNARE protein and locates to the endoplasmatic reticulum (ER). Together with syntaxin 18, Sec 22b and BNIP 1 it mediates retrograde traffic from the Golgi to the ER.

Selected General References

Sec22b-dependent assembly of endoplasmic reticulum Q-SNARE proteins.

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Implication of ZW10 in membrane trafficking between the endoplasmic reticulum and Golgi.

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A SNARE required for retrograde transport to the endoplasmic reticulum.

Burri L, Varlamov O, Doege CA, Hofmann K, Beilharz T, Rothman JE, Söllner TH, Lithgow T

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Use1p is a yeast SNARE protein required for retrograde traffic to the ER.

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