

Caveolin 1

Cat.No. 161-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

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| Reconstitution/ Storage | 100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized! |
| Immunogen | Synthetic peptide corresponding to AA 1 to 17 from rat Caveolin1 (UniProt Id: P41350) |
| Recommended dilution | Optimal concentrations should be determined by the end-user. |
| matching antibodies | 161 002, 161 003 |
| Remarks | This control peptide consists of the synthetic peptide (MSGGKYVDSEGHLYTVP) 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 peptide 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

Caveolae are distinct flask shaped invaginations which contain high concentrations of cholesterol and sphingolipids. These subcellular compartments can be found at the surface of many cell types. Three isoforms (**Calveolin 1**, 2, 3) have been described so far. Caveolin 1 is the major coat protein of endothelial caveolae and a knock out of this protein leads to a complete loss of these cell surface structures in various cell types.

Caveolin 1 is also expressed in brain where it localizes to astrocytes, oligodendrocytes and endothelial cells but seems to be absent from neurons. Very recently a correlation of increased caveolin 1 expression in brain and Alzheimer's disease has been described.

Selected General References

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